## UNITED STATES DEPARTMENT OF LABOR BUREAU OF LABOR STATISTICS

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# MONTHLY LABOR REVIEW



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## UNITED STATES DEPARTMENT OF LABOR

W. N. DOAK, Secretary

## **BUREAU OF LABOR STATISTICS**

ETHELBERT STEWART, Commissioner

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## This Issue in Brief

The printer telegraph has reduced the proportion of Morse telegraphers in commercial telegraph offices to 21.5 per cent of all operators, according to a study by the United States Bureau of Labor Statistics. By 1931 printer circuits accounted for nearly 90 per cent of all commercial message handlings of one large company. The proportion of male operators has been reduced from about 80 per cent to about 40 per cent of all operators. In the principal telegraph offices the productivity of printer operators averages about twice that of Morse operators, with a resulting technological displacement amounting to about 50 per cent. Page 501.

Fluctuations in employment in Ohio in 1930 were greater among males than among females in the wage-earning group but greater among females in the clerical and sales groups. A complete analysis of the employment fluctuations in the various industries in Ohio in 1930, with comparisons with earlier years, is given in an article beginning

on page 516.

The first work-insurance law adopted by any American State was enacted by the Wisconsin Legislature in January, 1932. A compulsory act will become effective on July 1, 1933, unless prior to that time the employers of the State shall have established some voluntary unemployment-insurance plan approved by the State industrial commission. The act covers all employers employing 10 or more persons for 4 or more months during the preceding calendar year, with certain exceptions. The unemployment reserve fund is to be made up of contributions by the employer at the rate of 2 per cent of his annual pay roll, until a reserve amounting to \$55 per employee has been built up, and thereafter the rate of contribution is reduced to 1 per cent until the reserve amounts to \$75. Subject to a waiting period of two weeks, benefits are payable at the rate of \$10 a week, or 50 per cent of the average weekly wage, whichever is lower, unless the wage is less than \$5 when a benefit of \$5 is paid. The maximum period of benefit in any one calendar year is limited to 10 weeks. The act is to be administered by the State industrial commission. Page 540.

The establishment of state-wide systems of unemployment reserves, supported by employer contributions of 2 per cent of pay roll, is recommended in the report of the Interstate Commission on Unemployment Insurance made up of representatives of the governors of the States of New York, New Jersey, Massachusetts, Pennsylvania, Ohio, and Connecticut. Under the plan suggested the maximum rate of benefit would not exceed \$10 a week for a total of 10 weeks in any 12 months and the reserves set up in any State would be held,

invested, and disbursed by the State. Page 552.

The unemployment insurance and savings plan of the J. I. Case Co., Racine, Wis., put into effect in November, 1931, covers all employees on an hourly or piecework basis who have been employed by the company continuously for a period of six months. The company and the employees contribute equal amounts to the fund until a reserve equivalent to one year's average full-time earnings has been

accumulated. Withdrawals from the fund are allowed only during periods of business depression when the company can not furnish sufficient employment and the employee is unable to secure employ-

ment elsewhere. Page 554.

Earnings per hour of workers in the furniture industry in 1931 averaged 41.1 cents and full-time earnings per week averaged \$21.29, while full-time working hours per week averaged 51.8, according to a study made by the United States Bureau of Labor Statistics. Hourly earnings in 1931 were 7.9 cents less than in 1929 but 19.7 cents more than in 1915, the date of the last similar study for this industry prior to 1929. Full-time weekly earnings in 1931 averaged \$4.14 less than in 1929 and \$9.05 more than in 1915. Average full-time working hours were one-tenth of an hour less per week in 1931 than in 1929 and 5.6 hours less than in 1915. Page 644.

A deduction of 10 per cent from the pay check of each employee is provided in the railroad labor agreement of January 31, 1932. The agreement was signed by representatives of 20 of the railroad labor unions and of more than 200 railroads. The wage deduction is to continue for a period of one year beginning February 1, 1932, the

basic rates remaining unchanged. Page 612.

The mechanization of bituminous coal mining showed a sharp increase in 1930. In that year the deep-mined bituminous coal produced by means of loading machines, pit-car loaders, and hand-loaded conveyors, increased to 46,824,000 tons, or by 23.7 per cent as compared with 1929. For the country as a whole, the total mechanically loaded product in 1930 amounted to 10.5 per cent of the tonnage produced; in the State of Montana to almost two-thirds of the total tonnage; and in Wyoming and Illinois, to approximately one-half of the total. Page 558.

The United States Supreme Court on February 23, 1932, handed down an opinion upholding the validity of the Federal longshoremen's and harbor workers' compensation act. The majority opinion declared that the findings of the deputy commissioner as to jurisdictional facts such as whether the relation of master and servant existed or whether the injury occurred upon navigable waters of the United States, were not binding on a district court. However, as to all issues of fact relating to the details of the claim made by an injured employee or his dependents under the act the majority opinion held that the findings of the deputy commissioner were binding upon the court if they were not arbitrary and were supported by substantial evidence. Page 577.

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MARCH, 1932

## Displacement of Morse Operators in Commercial Telegraph Offices

THE Bureau of Labor Statistics is making a study of the effects of the printer telegraph (the teletypewriter or teletype) on the employment of operators. The most extensive but by no means the only important phase of telegraphic communication may be described as commercial message handling by the telegraph companies. Other aspects, not covered by the present article, include ticker services, especially for market quotations; handling of news by press agencies;

railroad telegraphy; and private-wire circuits.

A preliminary report on commercial message handling reveals widely different effects of the printer telegraph in the larger offices (classed as functional offices) as compared with branch offices and other small offices. In the larger offices Morse operators have been somewhat slowly but very largely displaced by operators of printer telegraphs, and the productivity of printer operators is so great that technological displacement approximates 50 per cent of the number of operators who would be required under Morse manual operation. In offices not classed as functional the per cent of technological displacement is lower. In all offices combined the proportion of male operators has been reduced from about 80 per cent to about 40 per cent of the total number, and the skill and training characteristic of Morse operators are supplanted by ability simply to operate a typewriter keyboard adapted to telegraphic purposes.

## Changing Methods

The essential feature of Morse telegraphy, as everyone knows, is the manual operation of a key for opening and closing an electrical circuit. Varying lengths of the interval, with varying sequences of short and long intervals, at first were recorded in the form of dots and dashes of the Morse code at the receiving end on a tape recorder, from which they were translated by the receiving operator into ordinary letters, numbers, and words. It was soon discovered that the operator could translate the signals by sound without troubling to use the code signs on the tape recorder. Specialized "sounders" and "resonators" were devised for accentuating the sound signals and making their translation easier. The tape recorder was thereafter used only when for any reason a code record was desired. The Morse transmitter was simplified and its operation made easier, one result being a reduced frequency of a malady experienced by oper-

ators, a kind of partial paralysis known as "glass arm." Speed of transmission depends, of course, on the speed of reception and transcription. The general use of the typewriter for transcribing messages increased the speed of reception and, indirectly, the speed of transmission.

The displacement of Morse operators resulted largely from efforts to economize in the use of the wire plant. This meant increasing the amount of traffic per unit of wire. The first important economies were under Morse operation—the duplexing and quadruplexing of wires. By duplexing, a message could be sent in each direction. By combining two methods of duplexing, quadruplex operation was possible, though the sending of two messages in each direction was

efficient only for limited uses.

Closely connected with economy in use of the wire plant were the early efforts to supplant Morse manual operation by means of "fast" telegraphy, especially the Wheatstone system. The Morse characters were punched by hand on a tape and this perforated tape was fed through a transmitter. Only the actual transmission was automatic in contrast with manual transmission by the Morse operator when he pressed the key. Transmission by perforated tape, on good circuits of not more than about 200 miles, was much more rapid than by Morse manual operation—as high as 400 words a minute as against about 25 words. But the Wheatstone system was limited to relatively short distances having high-grade circuits. Much time was required for punching the tape before transmission and for translating and transcribing the code from the recording tape at the receiving end. Automatic transmission had not only a speed but a mechanical precision and monotony and inflexibility which the variable conditions of the circuit failed to warrant. In manual transmission the operator could modulate the speed in accordance not only with the varying conditions of the circuit but with the varying nature of the material transmitted—for example, words of similar nature, such as "protest" and "protect."

The final success of automatic transmission was to come not through speedier transmission of a particular message (although greater speed was possible) but through increasing the number of messages sent simultaneously over the same wire. Effective transmission by Morse manual operation, under ordinary conditions, was limited to duplex operation, or the sending of one message in each direction at the same time. The multiplex system, while transmitting much more rapidly than is possible under Morse manual operation, also economizes the wire plant by sending as many as eight messages over one wire at the same time, and reduces operating costs by utilizing relatively unskilled operators (typists) in place of Morse manual operators. Furthermore, it economizes in the use of labor by eliminating the process of punching the tape by hand and then feeding it into the transmitter (the manual part of multiplex transmission being confined to operating a typewriter keyboard), and also by printing the message automatically at the receiving end in ordinary characters instead of in code, thus doing away with the relatively skilled operator who, in the Wheatstone system, translated and transcribed the message.

Each key on a typewriter keyboard epresents a character, and the depressing of the key sets up an electrical contact which automatically operates the corresponding key on a similar keyboard at the receiving end. The contact may be established by direct keyboard action or by means of a perforated tape which is automatically fed through a transmitter, each set of perforations composing a code character corresponding to a character on the keyboard. At the receiving end the keyboard which automatically prints the message may be a tape-recording printer or a page printer. In either case the message is typed out not in code but in ordinary printed characters. Several receiving machines may be operated on the same circuit by

one transmitting machine.

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Although it is commonly said that multiplex operation means the sending of several messages over one wire at the same time, this is literally not the case. What happens is a dividing of time on the wire, so that the printers follow each other in rapid succession, one 5-unit impulse (one character) being sent by each printer in turn. It is impossible for Morse operators thus to divide the time on the line because an absolute synchronism of sending and receiving instruments is necessary, and this can be obtained only by mechanical means. The speed limit of the Morse operator, particularly of the receiving operator, would also make a dividing of time on the line

relatively of little value.

Briefly, the device which enabled the printer telegraph to outrival the Morse operator was the synchronized distributor for dividing or distributing time on the wire, thus enabling one wire to bear a very much heavier traffic burden than is possible by duplex manual opera-Multiplexing includes duplexing; that is, time on the wire in The disboth directions is divided by the synchronized distributors. tributor is a motor, revolving on a segmented face plate. Ordinarily there are four segments, each representing a channel of communication. As the distributor revolves, its brushes send and receive one complete letter (or other character) from each of the four channels. The distributor rotates so rapidly that the result is practically to provide four circuits on one wire at the same time; and since duplexing the wire makes possible its use in both directions at the same time, the synchronized distributor of the multiplex system gives in effect eight circuits or channels of communication on one wire.

The successful use of the multiplex system depends on a heavy volume of traffic. Multiplex equipment is economical where the traffic is too heavy for a duplex circuit and where the mileage is so great that the cost of wire is greater than the cost of the multiplex (terminal) equipment. In a word, multiplex operation is adapted to main trunk lines but not to branch lines and trunk lines with light traffic. For this reason the Morse manual system continued in extensive use after the introduction of multiplex circuits. The final triumph of the printer telegraph over the Morse operator resulted from the development of apparatus usually known as the simplex

system.

The term simplex is misleading, because simplex printers commonly use duplex circuits. The term is used, however, in contrast with multiplex, for the simplex printers do not divide the time on the wire. In this matter they resemble the Morse manual instruments, on the one hand, and, on the other hand, they are like the earlier unsuccessful printers in use before the adoption of the multiplex system. Obviously, their use on ordinary duplex circuits means that

they compete with Morse manual operators in the one field in commercial telegraphy remaining after the adoption of the multiplex

system for trunk-line circuits.

How may the recent successful operation of printer telegraphs on duplex circuits in competition with Morse be accounted for? (For it will be remembered that the prolonged efforts in this direction before the adoption of the multiplex system were unsuccessful.) There seems to have been no one outstanding change. Increasing control of conditions on the wire; the perfecting of the mechanism of the printer to such an extent as to make its operation and maintenance practicable in branch offices and customers' offices with a minimum of supervision; reduced cost of printers and of their operation and maintenance—these are the more important changes contributing

to the success of simplex apparatus.

The perfecting of the wire plant and of the mechanism of the printer made possible the synchronizing of sending and receiving ends by means of the so-called "start-stop" method. There is a motor at each end of the wire, the two motors running at synchronized speeds. Signals or impulses for characters are made up, as in multiplex operation, by combinations or permutations of a 5-impulse code. But in simplex operation, in addition to the five character impulses representing each letter or figure sent over the wire, there is a start impulse which releases the printing and transmitting mechanism and a stop impulse which arrests the motor at each end of the circuit. By this device, in contrast with the synchronized distributor of multiplex printers, the sending and receiving parts of the apparatus are kept in But since 7 impulses are required (5 character imsynchronism. pulses, 1 start impulse, and 1 stop impulse) for the printing of each character, simplex operation requires seven-fifths of the time on the wire that the multiplex requires, and, in addition, uses only duplex circuits.

In commercial telegraph offices multiplex printers generally use indirect transmission; that is, when a key on the keyboard is depressed it perforates a tape in code and the tape in turn is automatically fed through a transmitter. Simplex printers, in commercial telegraph offices, commonly use direct transmission—the depressing of the key

sends the character impulse directly over the wire.

With the perfecting of the printer telegraph and of the plant equipment to such an extent as to make possible the economical use of printers on duplex circuits between main offices and branch offices and between company offices and customers' offices, the end of Morse manual operation for the handling of messages by the commercial telegraph companies was in sight. By means of speed and flexibility and low operating cost the printer telegraph has been able to prevail also in some specialized industries, such as that of the news associations, and to compete with varying degrees of success in all industries requiring telegraphic communication.

## Transition to Printer Telegraph

Information about the early stages of the transition to the printer telegraph is fragmentary. The slight extent of its use by 1907 is indicated by Table 1:

 $_{
m TABLE}$  1.—METHODS OF OPERATING COMMERCIAL TELEGRAPH SYSTEMS, 1902 AND 1907  $^{1}$ 

at all a solven and or arread	1902	2	1907		
Kinds of circuits	Miles of circuit	Per cent of total	Miles of circuit	Per cent of total	
Single channel Duplex Quadruplex Machine or automatic	816, 593 185, 048 294, 910 10, 495	62. 5 14. 2 22. 6 0. 8	1, 047, 458 239, 278 266, 337 24, 888	66. 4 15. 2 16. 9 1. 6	
Total	1, 307, 046	100.0	1, 577, 961	100. (	

<sup>1</sup> Data are from U. S. Bureau of the Census, Telegraph systems, 1907, p. 14.

The table shows that in both years the wire mileage used for printer telegraphy (0.8 per cent of the total in 1902 and 1.6 in 1907) was much smaller than the per cent of traffic handled by the printers, for only the busier circuits or trunk lines could then be economically con-

verted to printer operation.

It was not till the period of the World War that any considerable proportion of the industry was converted to printer operation. In 1914 the annual report of one of the principal companies mentioned a new development in "what might be termed mechanical transmission." It was stated that "there is now in daily use rapid transmission apparatus which nearly, if not quite, quadruples the most effective yet devised, and is giving great results on the trunk lines where there is a concentrated business between large places." Then followed a hazardous forecast belied by the event: "There is nothing as yet, and not likely to be anything which will supersede the old key transmission of a settled business distributed to many places on a local line."

Changes made by the end of 1918, as shown by the same company's report for that year, were as follows:

TABLE 2.—METHODS OF MESSAGE HANDLING USED BY A LEADING COMPANY IN 1918

		ent of ness
Mode of transmission	Begin- ning of year	End of year
Morse manual Automatic telegraph Telephone	62. 0 35. 5 2. 5	47. 0 49. 0 4. 0

The decline in the proportion of business handled by Morse operators from 62 per cent at the beginning of 1918 to 47 per cent at the end of the year was not due entirely, it will be noted, to the use of the printer or "automatic" telegraph. The use of the telephone was increasing at a surprising rate, for before the perfecting of the simplex printer the telephone began to be used extensively for handling telegrams between branch offices and main offices, to take the place of Morse manual transmission.

By the end of 1926, when simplex printers were being introduced, the program of one of the leading companies of converting its trunk

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lines to multiplex operation had been virtually completed; by that time, 66 per cent of the traffic was reported as being handled by

printers.

Another prominent company experimented extensively with printer telegraphs, but adopted the multiplex printer somewhat later. Its annual report announced in 1923 that printer operation except on multiplex circuits, had proved to be uneconomical; that during 1922 its engineers had perfected a multiplex outfit suited to its needs; that the apparatus had been installed in the New York and Chicago offices; and that plans had been made for the rapid extension of multiplex operation. Conversion of the principal circuits to multiplex printer operation continued till 1928, when the program was merged with, and in a measure superseded by, the installing of simplex

printers.

The multiplex system, because of its relatively high cost in terminal equipment, is adapted only to lines between larger centers with constant and heavy traffic, calling for a number of channels of communi-Until 1926 the shorter circuits and branch lines connecting with the trunk lines continued to be operated by the Morse manual method. It was in its annual report for 1926 that one of the leading companies announced the successful use of the simplex printer on circuits to branch offices, intracity circuits, and drop circuits adapted to supplying more than one newspaper with the same news dispatches. In 1927 simplex printers were "in successful operation in 25 important centers." In 1928 they were being installed not only in branch offices but also in customers' offices. By this arrangement a customer was able to telegraph his message to the company's office and have it relayed almost instantaneously to its destination. For economizing both office equipment and operating time there was introduced a so-called concentration unit. This is a selective device which chooses automatically an idle printer in the central office, for receiving a customer's message or for sending a message to a customer. By 1931 about 90 per cent of the company's commercial message handling was by printer (including simplex and multiplex).

Beginning in 1927 another important company also carried out an extensive program of replacing Morse operators with simplex printer operators in branch offices and customers' offices. The traffic handled by its printers (both multiplex and simplex) increased by 1931 to more

than 80 per cent of the total.

## Effects of Technological Changes on Number of Operators

THE effects of the printer telegraph (multiplex and simplex) and of other changes on employment in functional offices are radically different from their effects in other offices. A functional telegraph office is a larger administrative and operating center, with trunk-line

circuits, routing facilities, repeaters, etc.

Messages usually originate in branch offices; in other company offices which, because of size or location, are not classed as functional; in customers' offices equipped with telegraph or telephone circuits connected with company offices; and in railroad telegraph offices. The purpose of the functional office is not to originate messages (though there is frequently no telegraphic handling of messages before they reach a functional office), but rather to transmit messages received from the various tributary sources. Local offices may trans-

mit local messages without routing them through functional offices, but their main purpose is the securing or originating of business; they act as intermediaries between the public and the operating or transmitting personnel in functional offices.

Messages originating outside of functional offices are transmitted to them in various ways: By local telegraph circuits (formerly Morse, now usually printer); by pneumatic tubes (from nearby branch offices

where the traffic is heavy); by messenger; and by telephone.

It is readily seen that in small offices, serving mainly as originators of business, the productivity of operators will vary indefinitely with several factors in addition to the mode of operation (Morse v. printer). Productivity, in terms of messages handled by telegraph, will depend especially on the number of messages received for transmission. Whether business is brisk or slow, someone must be on duty to serve such customers as may call for service. If an operator in a small office is expected to attend to office routine or to solicit business, his productivity as an operator, in terms of number of messages handled, will be proportionately low.

In functional offices, on the other hand, there is a specialization of work which limits operators to the actual work of transmitting messages. Furthermore, there is ordinarily a sufficient volume of business to enable the management to reduce or to increase the number of operators in accordance with fluctuations in the volume of traffic. The productivity of operators and the effects of technological changes on number of operators can therefore be measured in

functional offices much more adequately than in other offices.

Whenever the basic facts concerning units of output and units of labor are available, it is desirable to estimate the technological displacement of labor by means of a comparison of changes in number of labor units on the one hand and in number of output units on the other hand. In the case of commercial message handling by the telegraph companies, this method, even in the case of functional offices, fails to give adequate results, because of lack of comparable data.

The principal unit of output of the telegraph industry is the message. But messages vary indefinitely in length and in the proportionate numbers of longer and shorter kinds of messages. New kinds of messages have been introduced from time to time, as night letters, night messages, day letters, etc., and the relative numbers and average lengths of the various types interpose difficulties in the way of reducing them to a common denominator. Furthermore, as far as actual transmission over the wire is concerned, some messages are handled only once, while others are handled several times. A message originating (for example) at the local office of the company in Alexandria, Va., and directed to someone at the Waldorf-Astoria Hotel in New York is handled six times: (1) Transmitted by the Alexandria operator; (2) received and (3) transmitted by the functional office operators in Washington, D. C.; (4) received and (5) transmitted by the functional office operators in New York City; and (6) received by the branch-office operator at the hotel, for delivery to the addressee.

The number of handlings, as well as the average length, of messages is not continuously comparable over a period of years. This is due to the fact that the facilities afforded by circuits, by repeater stations

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es es (formerly manual, now automatic), and by intermediate and terminal offices are constantly undergoing changes. These changes frequently result in economies in the routing of messages and reduction of the

number of handlings.

The principal telegraph companies are now "equating" their messages. An equated message consists of an arbitrary number of impulses sent over the wire by the operator. Two short messages of 20 words each would make approximately one and one-half equated messages. One longer message of 55 words would make approximately two

equated messages.

By noting changes in the number of equated message handlings, it is possible to measure the fluctuations in the volume of traffic and the efficiency of operating plant and personnel. Equated message handlings are not a true measure of output. They are partly a measure of operating efficiency, especially in the economical routing and transmission of the output. The ultimate unit of output is the character (letter or figure or space) sent by the operator over the wire. The word "wire," for instance, if included in a telegram, would require the sending of five separate characters—each of the four letters in the word and a space impulse for separating it from the word which follows. But the use of such a unit for general statistical purposes in correlation with units of labor is impossible for the obvious reason that there are no records of the number of character impulses transmitted.

Turning now to the problem of units of labor, we find that for the entire industry there are no satisfactory records covering the period of transition to the printer telegraph. Even for functional offices the number of man-hours is not available in suitable form, nor indeed in any form except for certain offices. For a majority of functional offices, the total number of operators is available for the entire period of rapid transition, but inferences drawn from the use of the

data would be decidedly inadequate.

A complete statistical picture of the productivity of labor in terms of a comparison of changes in units of labor and units of output can not be drawn because of the incompleteness of the basic data now available. But fortunately there is an alternative mode of approach—a method based on the comparative efficiency of Morse manual, multiplex, and simplex operation. This method is applicable only to functional offices, but in these offices it reveals approximately the technological displacement of operators normally to be expected on the basis of technological improvements already is use.

The efficiency of an operator as measured by the amount of traffic handled depends in part on the speed at which he sends or receives characters (letters, figures, etc.) over the wire while he is actually at work, and in part on the proportion of his time that is devoted to sending or receiving impulses over the wire. Quantity of output depends, that is to say, on either increasing the speed or reducing the idle time, or both. The printer telegraph outrivals the Morse manual

method in both of these essential factors of productivity.

The printer telegraph is geared at an automatically maintained speed. The gearing is adjustable; the usual speed is 60 equated words a minute, but on good multiplex circuits it is often higher. An equated word consists of an arbitrary but supposedly average number of letters or characters. The machine is geared to send impulses over

the wire at a fixed rate, and this rate, per minute, equals the number of characters, including spaces, contained in 60 words of average length

The speed of the Morse operator varies indefinitely. In commercial telegraph offices it ranges around 25 words a minute.<sup>2</sup> At the receiving end there must also be an operator, concentrating on the message, and transcribing it as it is ticked off by the "sounder." The speed, of course, is fixed by the capacity of the slower of the two

operators.

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er er In the case of the printer telegraph, the operator (typist) must keep pace with the automatically geared machine, and if she is unable to do so, she merely gives place to another. But her ability to maintain such a speed is facilitated by the fact that she can alternate in the work of sending and receiving. Reception relieves the tension of rapid, monotonous pounding of a geared keyboard, because it consists merely of taking the automatically typed message from the machine and preparing it for the belt conveyor or in other ways facilitating its ultimate delivery. The pasting of the printed tape to message blanks may be monotonous, but at least it affords a change.

There is necessarily much loss of time in both Morse and printer operation, and only during peak-load periods do the potential speeds find full expression in actual messages handled. But the loss of time from actual transmission or reception is likely to be greater by Morse than by printer operators. If either the sending or the receiving Morse operator is interrupted both will remain idle; while reception by printer is automatic. Transmission by perforated tape (the usual method on multiplex circuits) makes possible the accumulation of a reserve of typed copy (in the form of perforations on the tape), and if the operator (typist) is interrupted, the tape transmission continues

automatically at the speed fixed by the gearing.

A number of other factors tend to reduce the idle time of printer operators as compared with Morse operators. The most important of these is probably the wire-concentration unit or concentrator. This is a device not yet perfected but neverthelesss in extensive use in functional offices, for handling, by simplex operators, the business that originates or terminates in branch offices and customers' offices equipped with simplex printers. By an automatic signal system, idle operators are chosen in such a sequence as to keep a minimum number of operators busy. If business falls off, some of the operators are automatically rendered idle and are transferred to a reserve force or to another wire-concentration unit where traffic is increasing. In one of these units, a 200-wire concentrator, to cite an example, 200 circuits from customers' offices or branch offices are handled by 29 simplex printers, manned by a varying number of operators. are several advantages—a reduction of the number of printers; a saving of floor space; a speeding up of service; and finally, elasticity in Adjustment of the number of operators to the number of operators. the volume of traffic means that there is relatively little idle time and therefore a relatively high productivity as measured by message handlings. In the case of multiplex operators, this automatic adjustment is not so essential, for multiplex operators handle trunk-line traffic

 $<sup>^2</sup>$  For a discussion of the subject, see the article on the telegraph by Newcomb Carlton in the new edition of the Encyclopedia Britannica.

<sup>103146°-32-2</sup> 

and there is usually on the trunk lines a volume of business large enough to make relatively simple the adjustment of the operating staff to traffic requirements.

The effects of these various factors appear in Table 3, which is based on the comparative productivity of the three types of operation (Morse manual, multiplex, and simplex).

Table 3.—EFFECTS OF INTRODUCTION OF PRINTER TELEGRAPH ON EMPLOYMENT OPPORTUNITIES FOR OPERATORS

[Estimated on basis of comparative productivity of different types of operators in a majority of functional offices in 1931]

Types of operation	Oper	rators	Per cent	Relative productivity	Number of Morse manual operators	Loss of employ ment opportunities for operator		
Types of operation	Number	Per cent of total	ness handled	(Morse manual= 100)	necessary to handle 99 per cent of business	Esti- mated number	Per cent	
Morse manual	1, 792 4, 177 2, 491	21. 2 49. 4 29. 4	10. 5 62. 3 26. 2	100 255 180	1, 792 10, 651 4, 483	6, 474 1, 992	60, 8 44, 4	
Total	8, 460	100, 0	1 99. 0		16, 926	8, 466	50.	

<sup>11</sup> per cent of the business was handled by telephone.

From Table 3 it appears that the productivity of Morse operators in comparison with multiplex operators is in the ratio of 100 to 255; and of Morse to simplex operators, in the ratio of 100 to 180. number of Morse operators necessary for handling the total functionaloffice traffic would be about twice the total number of operators in service in 1931. The technological displacement (loss of employment opportunities) was therefore about 50 per cent.

The conclusions embodied in Table 3 are subject to certain qualifica-

tions.

In the first place, the figures do not include the functional offices of companies which have most recently introduced simplex printers. But the functional offices included in the table employ about 75 per cent of all functional-office operators, and handle a larger per cent of functional-office traffic. It is probable that the working out of the new system in all functional offices means not less than 10,000 fewer employment opportunities than would be available under complete Morse operation, in the functional offices only of the commercial telegraph companies.

In the second place, the per cent of technological displacement may be expected to rise as the proportion of traffic handled by printer operators increases, and as the number of simplex operators becomes more readily adaptable to changes in the volume of traffic. Increasing elasticity of the labor force may be expected to result from the progressive solution of the problems of transition to the new system, and especially from the perfecting of the wire concentration unit

previously described.

A possible criticism of Table 3 is the fact that Morse operators of to-day have specialized work to do. If they handled the entire traffic to-day, would their efficiency in terms of average output per operator be comparable to what it actually is with specialized work rather than general traffic?

This question raises in turn another: What was the efficiency of Morse operators in terms of average output per operator before the introduction of the printer, when they handled the entire traffic? Fortunately, records are available of the number of operators on duty and the number of messages actually sent and received in 22 principal cities during April of the years 1907 and 1908. These records show that the average number of messages sent and received per day per operator in 1907 was 132.8 (16.6 per hour on an 8-hour basis); and the number in April, 1908, was 140.3 (17.5 per hour on an 8-hour basis).<sup>3</sup>

These hourly rates afford a significant contrast with the record of Morse operators at the present time in similar offices. During August, 1931 (a period of depression adverse to high productivity), Morse operators in a majority of functional offices handled an average of 24.3 equated messages per hour. It is possible that the equated message of August, 1931, was shorter than the average unequated message of April, 1907 and 1908, but that there was any considerable

difference is quite unlikely.

The excellent average showing made by Morse operators of to-day, in functional offices, in comparison with those of the era before the printer, is due largely to the fact that present-day Morse operators have high-grade circuits for use in handling specialized work requiring speed and flexibility, such as certain market quotations, brokerage work, and sporting news. Old Morse operators are sometimes heard to boast of the large number of messages they handled in the heyday of Morse telegraphy. The number of messages which telegraphers were inclined to regard as a fair day's work was about 250. under the stimulus of the bonus system, experts were able, on good circuits and under favorable conditions, to handle an average of 60 messages an hour. On the other hand, the speeding up not infrequently resulted in breakdowns, or in the partial paralysis known as "glass arm." Partly attributable to excessive speed, no doubt, were also the traditional restlessness and roving disposition of Morse telegraphers. Their output, attributed to themselves in reminiscent moods, is undoubtedly exceptional rather than characteristic.

On June 30, 1931, the total number of operators in functional telegraph offices was 11,524; and in other company offices, 5,533; total,

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If all of the operators in offices not classed as functional had been Morse operators, how many operators would have been required? As has already been stated, the conditions prevailing in these offices, which are primarily feeders for the functional offices, prevent a full utilization of the possibilities of the printer telegraph for increasing the output of operators. When there are no messages to be handled, the greater speed of the printer is of no avail. The operating staff (often limited to a single operator) may be utilized for office routine and for soliciting business. The printer, by expediting the handling of such messages as are filed, may increase the productivity of the operator by making possible more time for duties other than message handling; and in offices where the volume of traffic is relatively large, printer operation reduces the number of operators or makes unnecessary an expansion which would have been required under Morse

See pp. 506,507,

<sup>&</sup>lt;sup>2</sup> Based on data in S. Doc. 725 (60th Cong., 2d sess.): Investigation of the Western Union and Postal Telegraph-Cable Cos., pp. 68, 282, 283,

Statistical measurement is impossible, but in comparison with the effects in functional offices, increased productivity and technological displacement in the nonfunctional offices are small.

## Technological Displacement in Relation to Skill, Training, and Sex

THE effects of change to printer operation are by no means limited to a reduction of the number of operators otherwise necessary. Technological displacement includes, in this case, not only a decline in number of opportunities for employment but other changes of considerable social importance: (1) The passing of a historic type or class (the Morse telegrapher); (2) the elimination of a long-established technique requiring highly specialized skill and training; and (3) the supplanting of men by women.

Table 4 indicates the displacement of Morse operators since 1915 in those offices for which classified figures are available.

TABLE 4.—DISPLACEMENT OF MORSE OPERATORS BY PRINTER OPERATORS, IN A
MAJORITY OF TELEGRAPH OFFICES, 1915 TO 1931

All miller I	Fu	nction	al offices	8	Other company offices				Total			
Year	Morse operators		Printer operators		Morse operators		Printer operators		Morse operators		Printer operators	
Total Santa Total Salta Total	Average num- ber	Percent	Average number	Per cent	Average number	Percent	Average number	Per	Average num- ber	Percent	Average number	Per
1915 1921 1925 1929	4, 815 4, 275 4, 259 3, 019 1, 793	79. 6 46. 3 49. 3 31, 8 21. 2	1, 231 4, 949 4, 374 6, 478 6, 670	20. 4 53. 7 50. 7 68. 2 78. 8	1 2, 972 1, 417 (³)	98. 2 37. 1	1 53 2, 402 2 3, 125	1. 8 62. 9 100. 0	7, 231 4, 436 1, 793	63. 1 33. 3 15. 5	4, 227 8, 880 9, 795	36. 66. 84.

A verage number, first quarter of 1926.
 The number of Morse operators is now negligible and no separate classification is maintained.

The transition may be said to have begun about a decade and a half ago. Although 20.4 per cent of operators in the functional offices included in Table 4 were already printer operators in 1915, most of the printer telegraphs then in use had been recently installed. the perfecting of the simplex printer after 1925, the number of Morse operators, even in functional offices equipped with multiplex printers, remained almost 50 per cent of the total number; while up to that date printer operators were confined to functional offices. sition to printer operation in functional offices was so gradual as to create no very serious problem of displacement. But after 1925, the decline of Morse telegraphy was so rapid that, in the offices included in the table, Morse telegraphers declined in number from 7,231 to 1,793 and in proportion from 63.1 to 15.5 per cent.

For the offices not included in Table 4, information relating to earlier years is not available. In general, these offices adopted the printer system later, and indeed, in 1931, were still undergoing transition, in consequence of which the number of operators was abnormally large.

At the end of June, 1931, in all of the commercial telegraph offices of the major companies, there were 3,678 Morse manual operators, or 21.5 per cent of the total; 5,127 multiplex printer operators, 30.1 per cent; and 8,249 simplex printer operators, 48.4 per cent.

Many of the Morse operators now in service may be retained till natural turnover (resignation, retirement, or death) removes them. But the virtual abandonment of the Morse system, not only in commercial telegraph offices but also in most of the other fields in which it has long been used, is nearly everywhere taken for granted.

While Morse telegraphers have been confronting a rapid decline in the demand for their services in commercial telegraph offices, they have also encountered a decrease of opportunities for transfer to related fields (as railroad telegraphy). At the same time, they have met several obstacles in the way of their becoming operators of printer telegraphs. The principal obstacle has been the rivalry of young girls expertly trained in the handling of the typewriter; for the printer telegraph, as has been explained, is a typewriter adapted to the setting up of the electrical contacts required for the transmission of characters over the telegraphic circuit. Younger Morse operators, especially girls, found no difficulty in shifting from the Morse to the printer system. But many found the change impossible and many others were perhaps not unnaturally hindered by reluctance to exchange a higher for a lower status.

A survey by the Bureau of the Census in 1902 recorded a total of 13,093 telegraph operators connected with commercial telegraph systems. Of these, only 2,914, or 22.3 per cent, were females. The average wage of female operators was 36.3 per cent less than the

average wage of male operators.5

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e. es The first distinctive trend toward the substitution of women for men seems to have been a result of the disturbed conditions of 1907 and 1908. Industrial depression, strikes, and the automatic telegraph combined to reduce the total number of operators, and to increase materially the comparative number of female operators in these offices.

Table 5.—PROPORTION OF MALE AND FEMALE TELEGRAPH OPERATORS IN COM-MERCIAL TELEGRAPH OFFICES OF 26 PRINCIPAL CITIES, 1907 AND 1908 <sup>1</sup>

Year	Males		Females		Total			
	Morse manual	Ma- chine	Morse manual		Males		Females	
				Ma- chine	Num- ber	Per cent	Num- ber	Per
1907	4, 144 2, 927	21 32	859 884	52 117	4, 165 2, 959	82. 1 74. 7	911 1, 001	17. 9 25. 3

<sup>&</sup>lt;sup>1</sup> Based on data in S. Doc. 725 (60th Cong., 2d sess.): Investigation of Western Union and Postal Telegraph-Cable Cos., pp. 282, 283.

Table 5, although based on limited data, indicates the trend toward female operators. The per cent in 1907 was only 17.9, while in 1908 it was 25.3.

For a majority of functional offices, the trend toward the substitution of women for men is shown in Table 6.

<sup>&</sup>lt;sup>5</sup> U. S. Bureau of the Census. Telephones and telegraphs, 1902, p. 102.

TABLE 6.—SHIFT FROM MALE TO FEMALE TELEGRAPH OPERATORS IN A MAJORITY OF FUNCTIONAL TELEGRAPH OFFICES, 1915 TO 1931

N

	Mo	Morse manual operators Operators of printer equipment Total						Operators of printer equipment							
Year	Male		Fen	Female		Ma	ale	Fem	ale		Ma	le	Fem	ale	
	Num- ber	Per	Num- ber	Percent	Total	Num- ber	Per	Num- ber	Percent	Total	Num- ber	Percent	Num- ber	Per	Tota
1915 1921 1925 1929	4, 189 3, 310 3, 441 2, 426 1, 485	87 77 81 80 83	626 965 818 593 308	13 23 19 20 17	4, 815 4, 275 4, 259 3, 019 1, 793	317 630 756 1, 113 1, 524	26 13 17 17 23	914 4, 319 3, 618 5, 365 5, 146	74 87 83 83 77	1, 231 4, 949 4, 374 6, 478 6, 670	4, 506 3, 940 4, 197 3, 539 3, 009	75 43 49 37 36	1, 540 5, 284 4, 436 5, 958 5, 454	25 57 51 63 64	6, 046 9, 226 8, 633 9, 493 8, 463

It will be seen from Table 6 that there has been a slight decline in the proportion of males, even among Morse operators. The per cent of male Morse operators in 1915 was 87; in 1931, 83. The recent increase in the proportion of male printer operators from 17 per cent of the total in 1929 to 23 per cent in 1931 is probably due to the general installation of simplex printers, combined with the feeling on the part of Morse operators that transfer to printer positions is necessary in order to avoid unemployment. The total displacement of men by women in these offices since 1915 is shown under the last heading above as a decline from 75 per cent in 1915 to 36 per cent in 1931.

In regard to those functional offices which have most recently changed to printer operation, and in regard to all offices not classed as functional, there are no available records covering the earlier years of transition to the new system. But for 1931, Table 7 exhibits the comparative numbers of male and female operators, by classes, in all offices of the principal commercial telegraph companies.

TABLE 7.—RELATIVE NUMBERS OF MALE AND FEMALE TELEGRAPH OPERATORS IN ALL OFFICES OF PRINCIPAL COMMERCIAL TELEGRAPH COMPANIES, 1931

	Male operators			opera- rs	Total	
Class	Average number	Percent	Average number	Per cent	Average number	Percent
Morse manual operators	3, 087 841 2, 756	83. 9 16. 4 33. 4	591 4, 286 5, 493	16. 1 83. 6 66. 6	3, 678 5, 127 8, 249	21. 3 30. 1 48. 4
Total	6, 684	39. 2	10, 370	60.8	17, 054	100.

Among Morse operators, men still predominate, numbering 3,087 in 1931, or 83.9 per cent. The proportion of Morse operators (21.5 per cent of the total in 1931) is probably destined to a further decline. In many offices, the transition to printer was still under way in 1931. Among multiplex operators (a total of 5,127, forming 30.1 per cent of all operators in the offices of the principal companies) women predominated in virtually the same ratio as did men among Morse operators (4,286, or 83.6 per cent). The number of simplex operators was 8,249, or 48.4 per cent of the total. Of these, almost exactly a third (2,756) were men. The relatively rapid change from the

Morse system to the simplex printer on local circuits created, for the Morse operators who had handled these circuits, a grave problem aggravated by industrial depression and the decline of Morse telegraphy in other fields, especially on railroads.

In attempting to meet the problem of the displacement of skilled Morse operators, a leading telegraph company has facilitated transfers to printer positions by maintaining temporary training schools.

The company's policy is officially described as follows:

All Morse employees having any aptitude were given an opportunity to become testing and regulating attendants, for which job a knowledge of Morse is essential. Other Morse operators were given an opportunity to learn the simplex method of operation. In both instances the instruction in the new duties was given on company's time. As a rule, Morse operators do not make as good simplex operators as do younger people directly trained for that service. Nevertheless, such Morse operators are retained at their old ratings even though younger and better employees could be secured at the lower rating prevalent for simplex operators.

At the end of July, 1931, the results of the company's policy were indicated by the fact that in the case of simplex operators in functional offices, more than half of the male operators (58.8 per cent) and a considerable proportion of female operators (17.3 per cent) had been Morse telegraphers. Of the total number of simplex operators in functional offices (2,491), 31.2 per cent had been Morse

operators.

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In addition to the printer telegraphs in company offices, there are many thousands of instruments in customers' offices, connected by their own leased-wire circuits with the offices of the telegraph companies. There are also thousands of instruments in the offices of large organizations, using leased-wire circuits not connected directly with telegraph company offices but forming a part of the wire system of the telephone companies. A recent innovation enables those who have printer telegraphs to communicate directly with each other without having their messages transmitted for them by operators in the offices of the telegraph companies. In principle, the new method is similar to that of the telephone. A telephone company, instead of transmitting a telephone message, merely furnishes facilities by which any two subscribers transmit their own messages—that is, carry on a conversation. Similarly, the new telegraph system enables subscribers to do their own telegraphing.

The new arrangements were made effective late in 1931 by the telegraph companies for customers having printer circuits connected with their offices, and by the telephone companies for their patrons with leased-wire printer circuits. There are two methods. One is an automatic tape-perforating device for transferring customers' messages from one circuit to another. The other method is a switch-board resembling in function the telephone switchboard. That is, its function is to establish a circuit between any two subscribers, so that they may communicate directly with each other simply by the typing

of messages on the teletypes in their own offices.

Remarkable and rapid as have been the recent changes in employment conditions in the communications industries, there seems little hazard in prophesying further important changes in the numbers and status of commercial telegraphers.

## Fluctuation of Employment in Ohio in 1930, and Comparisons With Previous Years

By Frederick E. Croxton, Columbia University, and Fred C. CROXTON, COLUMBUS, OHIO

FLUCTUATION of employment during 1930 of wage earners, clerical employees, and salespeople (not traveling) is shown for 44,307 establishments in Ohio in this report. Comparison is also made with the previous six years. A report of the United States Bureau of Labor Statistics which is now in press will make available data for

the period from January, 1914.

The month of highest employment in 1930 as reported by the 44,307 establishments in manufactures, service, wholesale and retail trade, transportation and public utilities, construction, mining and quarrying, agriculture, and fisheries was May, when a total of 1,225,478 persons was reported. The month of lowest employment as reported by these establishments was December, when a total of 1,066,310 was reported. The variation from the high point of employment for both

sexes combined was 159,168, or 13 per cent.

The difference between employees reported for 1930 and 1929 affords some approximation of the effect of the depression. Reports for 1930 were secured from 1,126, or 2.6 per cent, more establishments than in 1929. Practically all of these additional establishments were probably small concerns and even with employment conditions unchanged the increase in number of persons employed would not be in proportion to the increase in number of establishments. As a matter of fact, even with the increase from 43,181 to 44,307 in number of establishments reporting, the maximum number of persons employed dropped from 1,356,004 to 1,225,478, the minimum number dropped from 1,306,622 to 1,161,860. This was a decrease of 130,526, or 9.6 per cent, in the maximum, a decrease of 164,414, or 13.4 per cent in the minimum, and a decrease of 144,762, or 11.1 per cent, in the average number of persons reported employed.

Males reported employed in 1930 by 44,307 establishments compared with 43,181 establishments in 1929, show a decrease of 115,343, or 10.9 per cent, in the maximum number, a decrease of 132,065, or 14.3 per cent, in the minimum number, and 122,211, or 12.2 per cent in the average number. Females reported employed in 44,307 establishments in 1930 compared with 43,181 establishments in 1929, show a decrease of 24,938, or 8 per cent, in the maximum number, a decrease of 16,003 or 5.6 per cent, in the minimum number, and a

decrease of 22,551, or 7.5 per cent, in the average number.

The total wage and salary payments (including superintendents and managers) reported by the 44,307 establishments in 1930 compared with the reports from 43,181 establishments in 1929 show a decrease of \$320,017,175, or 15.5 per cent.

## Sources and Scope of Study

The reports for the several years have been compiled from two series of reports collected and tabulated by the Division of Labor Statistics of the Department of Industrial Relations of Ohio. One of the two

<sup>&</sup>lt;sup>1</sup> U. S. Bureau of Labor Statistics, Bul. No. 553; Fluctuation in Employment in Ohio, 1914 to 1929.

series gives statistics of mines and quarries and the other statistics of all other industries in the State except interstate transportation and

governmental employment.

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es o The statistical data for these reports were furnished annually by employers of the State as required by law. The reports as compiled by the Ohio Division of Labor Statistics show the data by industries for the State as a whole and also for each of the more populous counties.

It is believed that this detailed information affords the most comprehensive and detailed data available in this country relating to changing employment or so-called fluctuation of employment for a long series of years. In each of the years the establishments are identical throughout the year and the facilities for securing reports from all establishments, as explained in a previous report,<sup>2</sup> are unusually favorable. The number of establishments reporting has increased each year but the added establishments are generally those employing comparatively few persons.

The industries covered and the number of establishments reporting are shown in Table 1. The number of establishments reporting increased in 1930 over 1929 a total of 1,126. The principal increases were 906 in service and 498 in trade. In construction there was a

decrease of 511.

TABLE 1.—NUMBER OF OHIO ESTABLISHMENTS REPORTING FLUCTUATION OF EMPLOYMENT, 1924 TO 1930

	Number of establishments reporting each year										
Industry group	1924	1925	1926	1927	1928	1929	1930				
Agriculture	732	910	1,052	1, 199	1, 329	1, 444	1, 639				
Construction.	7, 364	8, 407	9, 145	9, 724	9, 942	10, 183	9, 672				
Fisheries	25	23	22	21	20	21	22				
Manufactures Mining and quarrying:	9, 125	9, 502	9, 704	9, 880	9, 937	10, 035	10, 011				
Coal mining	1,000	889	879	858	714	679	674				
Fire-clay mining	108	108	110	105	112	108	107				
Gypsum mining	3	3	3	3	3	3	3				
Limestone quarrying	116	119	119	114	122	121	123				
Sandstone quarrying	49	43	44	46	42	33	30				
Service	4, 233	1 5, 971	6, 761	7, 598	8, 210	9, 335	10, 241				
Trade, wholesale and retail	7, 689	17, 277	7, 867	8, 526	8,916	9, 524	10, 022				
Transportation and public utilities	1, 271	1, 353	1, 453	1, 561	1,625	1, 674	1, 741				
Industry, not otherwise classified	25	23	22	21	20	21	22				
Total	31, 740	34, 628	37, 181	39, 656	40, 992	43, 181	44, 307				

<sup>&</sup>lt;sup>1</sup> A considerable part of the increase in number of establishments in service and of the decrease in trade, as compared with the previous year, is due to change of classification of "offices" from trade to service. This change of course also affects the number of employees.

The returns received do not give a complete picture for the industry group "agriculture" and for the subgroup "domestic service" under the industry group "service," as comparatively few farms or domestic establishments in Ohio employ as many as three persons and reports are not sought, although a few are received, from concerns employing fewer than three workers. The lists of the division of labor statistics are carefully checked with those of the industrial commission, which administers the workmen's compensation law. Employers of fewer

<sup>&</sup>lt;sup>2</sup> Labor Review, April, 1930, pp. 31-62. Also see U. S. Bureau of Labor Statistics Bul. No. 553: Fluctuation in Employment in Ohio, 1914 to 1929.

than three workers may carry insurance but are not compelled to do so. Household or domestic service does not come within the requirements of the insurance law but employers of such service, regardless of the number of persons employed, may avail themselves of the provisions of that law. The Monthly Labor Review for April, 1930 (p. 33), contains a discussion relative to the approximate completeness of the materials collected for the Ohio statistical reports.

For each of the seven years, 1924 to 1930, Table 2 shows the maximum, minimum, and average number of employees for whom in-

formation was secured.

TABLE 2.—NUMBER OF EMPLOYEES COVERED BY REPORTS TO THE DIVISION OF LABOR STATISTICS, DEPARTMENT OF INDUSTRIAL RELATIONS OF OHIO, 1924 TO 1930

Item	1924	1925	1926	1927	1928	1929	1930
Males							
Maximum month	891, 731 833, 115 857, 062	945, 843 847, 398 907, 167	990, 383 898, 011 946, 740	953, 784 869, 457 921, 753	993, 705 843, 462 939, 567	1, 054, 154 921, 442 1, 004, 283	938, 811 789, 377 882, 072
Maximum month Minimum month Average of 12 monthly reports  Both sexes	248, 713 230, 147 238, 426	266, 861 239, 065 250, 612	279, 275 253, 728 264, 106	284, 664 260, 958 272, 395	301, 222 261, 946 278, 974	313, 416 287, 221 302, 339	288, 478 271, 218 279, 788
Maximum monthAverage of 12 monthly reports	1, 134, 424 1, 063, 262 1, 095, 488	1, 086, 463	1, 151, 739	1, 152, 874	1, 282, 584 1, 105, 408 1, 218, 541	1, 230, 724	1, 066, 310

The amount reported paid in wages and salaries in 1930 by 44,307 establishments and in 1929 by 43,181 establishments is shown in Table 3. The decrease in amount paid, even with the increase in number of establishments reporting, was \$320,017,175, or 15.5 per cent. The clerical group (bookkeepers, stenographers, and office clerks) shows an increase in amount paid of \$9,611,892, or 3.4 per cent, which is probably due to the fact that the increase in establishments, as noted on a previous page, occurred very largely in the two industry groups, service and trade, with percentages of increase of 9.7 and 5.2 per cent, respectively. Information concerning superintendents and managers is not included in other tables of this report.

TABLE 3.—WAGE AND SALARY PAYMENTS IN OHIO ESTABLISHMENTS, 1929 AND 1930, BY GENERAL OCCUPATION GROUPS

General occupation group	1929 (43,181 estab- lishments)	1930 (44,307 estab- lishments)
Wage earners_ Bookkeepers, stenographers, and office clerks Sales people (not traveling) Superintendents and managers	\$1, 523, 848, 976 282, 709, 980 119, 084, 364 134, 705, 187	\$1, 220, 699, 988 292, 321, 872 88, 972, 655 138, 336, 817
Total	2, 060, 348, 507	1, 740, 331, 332

## Fluctuation of Employment, by Industries

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Table 4 shows for each industry group the number of persons reported employed on the 15th of each month of 1930. As before stated, the figures for agriculture do not give a complete picture of that industry.

TABLE 4.—NUMBER EMPLOYED IN OHIO ESTABLISHMENTS ON THE 15TH OF EACH MONTH IN 1930, BY SEX AND INDUSTRY GROUP

Sex and month	All industries	Agri- cul- ture	Con- struc- tion	Fish- eries	Manu- factures	Mining and quarry- ing	Service	Trade, whole- sale and retail	Transportation and public utilities	Indus- tries not other- wise classi- fied
Males										
January	894, 063	6, 132	52, 953	212	573, 651	27, 900	84, 970	84, 775	63, 454	16
February		6, 196	52, 797	214	576, 043	27, 996	85, 093	84, 373	62, 618	16
March		7, 209	57, 695	304	574, 979	27, 779	86, 588	85, 026	62, 487	16
April	932, 039	8, 337	69, 584	318	585, 431	27, 615	90, 178	86, 313	64, 246	17
May	938, 811	8, 975	78, 723	386	580, 380	27, 115	91, 072	86, 177	65, 965	18
June	922, 061	9, 048	79, 754	352	561, 721	27, 236	91, 542	86, 026	66, 364	18
July		9, 876	82, 068	281	536, 915	27, 014	89, 861	84, 617	66, 943	17
August	879, 302	8, 613	79, 513	287	523, 644	27, 503	89, 188	83, 660	66, 877	13
September	868, 427	8, 756	75, 250	320	516, 187	28, 169	89, 355	84, 049	66, 324	13
October		8, 769	70, 411	329	505, 481	29, 208	87, 280	84, 505	64, 778	18
November		7, 284	59, 948	325	486, 934	28, 874	85, 560	84, 076	61, 963	19
December		6, 358	47, 724	212	478, 273	28, 307	83, 405	85, 697	59, 382	19
Females	100,011	0, 000			210,210	20,000	00, 100	00,001	00,002	
	004 004				105 010	***				
January	281, 826	814	2, 385		135, 242	121	66, 701	55, 586	20, 965	1:
February		847	2, 377		136, 514	121	66, 827	55, 312	20, 847	1:
March	285, 270	954	2, 408		136, 897	121	67, 373	56, 810	20, 695	1:
April		1, 147	2, 453		136, 507	121	68, 086	59, 680	20, 470	14
May		1, 207	2, 480		135, 557	121	68, 845	57, 677	20, 765	1.
June	284, 848	1, 197	2, 485		134, 117	121	69,000	57, 062	20, 853	1:
July	274, 200	1, 242	2, 443		128, 084	121	67, 518		20, 597	1:
August September	272, 682	1,002	2, 424		128, 874	121	66, 8	53, 184	20, 254	13
September	277, 224	1, 093	2, 389		131, 696	121	67, 290	55, 102	19, 519	1
October	275, 259	1,072	2, 386		129, 160	121	66, 641	56, 560	19, 305	1
November	271, 218	892	2, 342		124, 442	121	65, 716	58, 689	19,003	13
December	276, 933	843	2, 297		121, 406	121	65, 242	68, 288	18, 725	1
Both sexes					1					
January	1, 175, 889	6, 946	55, 338	212	708, 893	28, 021	151, 671	140, 361	84, 419	2
February	1, 178, 203	7,043	55, 174	214	712, 557	28, 117	151, 920	139, 685	83, 465	2 2
March	1, 187, 353	8, 163	60, 103	304	711, 876	27, 900	153, 961	141, 836	83, 182	2
April	1, 220, 517	9, 484	72, 037	318	721, 938	27, 736	158, 264	145, 993	84, 716	3
May	1, 225, 478	10, 182	81, 203	386	715, 937	27, 236	159, 917	143, 854	86, 730	3
June	1, 206, 909	10, 245	82, 239	352	695, 838	27, 357	160, 542	143, 088	87, 217	3
July	1, 171, 792	11, 118	84, 511	281	664, 999	27, 135	157, 379	138, 799	87, 540	3
August	1, 151, 984	9, 615	81, 937	287	652, 518	27, 624	155, 998	136, 844	87, 131	3
September	1, 145, 651	9,849	77, 639	320	647, 883	28, 290	156, 645	139, 151	85, 843	3
October	1, 126, 038	9,841	72, 797	329	634, 641	29, 329	153, 921	141, 065	84, 083	3
November	1, 086, 201	8, 176	62, 290	325	611, 376	28, 995	151, 276	142, 765	80, 966	3
December		7, 201		212	599, 679	28, 428	148, 647	153, 985	78, 107	3

The month of maximum and the month of minimum employment and also the variation in number employed are shown for each industry group in Table 5.

In the industry groups numerically important, the greatest variation for both sexes combined occurred in construction with 40.8 per cent

and the second greatest in manufactures with 16.9 per cent.

Charts 1 to 4 show in graphic form the course of employment of males and of females in all industries combined and in manufactures each year from 1914 to 1930. The line is broken at the end of each year as the number of establishments<sup>3</sup> is not the same from year to year. Within each year, however, the establishments are identical throughout the 12 months.

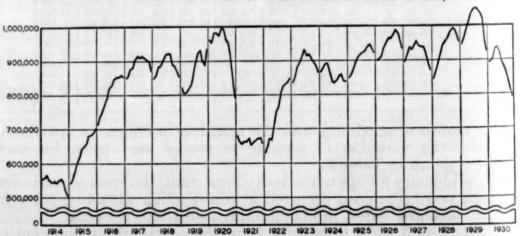
<sup>&</sup>lt;sup>3</sup> For number of establishments in earlier years of the period, see U. S. Bureau of Labor Statistics Bul. No. 553: Fluctuation of Employment in Ohio, 1914 to 1929, Table 1.

TABLE 5.—MAXIMUM AND MINIMUM EMPLOYMENT IN 1930 IN EACH INDUSTRY GROUP IN OHIO, BY SEX

	Max	ximum	Mir	nimum	Variatio maxim	n from
Sex and industry group	Number	Month	Number	Month	Num- ber	Per
Males All industries	938, 811	May	789, 377	December	149, 434	15, 9
AgricultureConstruction	9, 876 82, 068	Julydo	6, 132 47, 724	January December	3, 744 34, 344	37. 9 41. 8
Fisheries	386	May	212	January December	174	45, 1
Manufactures Mining and quarrying Service Trade, wholesale and retail Transportation and public utilities	585, 431 29, 208 91, 542 86, 313 66, 943	April October June April July	27, 014 83, 405 83, 660	July December August December	107, 158 2, 194 8, 137 2, 653	18.3 7.5 8.9 3.1 11.3
Females All industries	288, 478	April	271, 218	November.	17, 260	6.0
Agriculture Construction Fisheries	1, 242 2, 485	July June		January December		34. 5 7. 6
Manufactures Mining and quarrying Service Trade, wholesale and retail Transportation and public utilities	136, 897 (1) 69, 000 68, 288 20, 965	March (1) June December January	(1) 65, 242	December  (i)	(1) 3, 758 15, 104	11. 3 (1) 5. 4 22. 1 10. 7
Both sexes	1, 225, 478	May	1, 066, 310	do	159, 168	13, 0
Agriculture	11, 118 84, 511	Julydo	6, 946 50, 021	January December	34, 490	37. 5 40. 8
Fisheries	386	May	212	January December	} 174	45, 1
Manufactures_ Mining and quarrying Service Trade, wholesale and retail Fransportation and public utilities	721, 938 29, 329 160, 542 153, 985 87, 540	April October June December July	27, 135 148, 647 136, 844	July December August December	122, 259 2, 194 11, 895	16. 9 7. 5 7. 4 11. 1 10. 8

<sup>1</sup> All "office help" and fluctuation not reported.

CHART 1.—FLUCTUATION OF EMPLOYMENT OF MALES IN ALL INDUSTRIES IN OHIO, 1914-1930



Manufactures includes more than three-fifths of the males and approximately one-half of the females covered in this report. The percentage of males in the manufactures group was 64.8 in 1928, 65.1 in 1929, and 61.4 in 1930 and of females 50.4 in 1928, 50.5 in 1929, and 47.0 in 1930.

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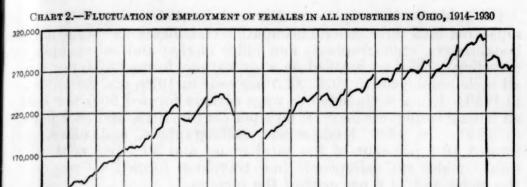
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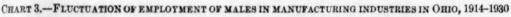
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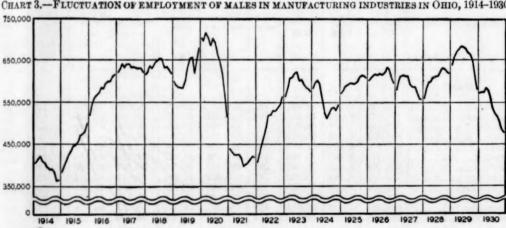
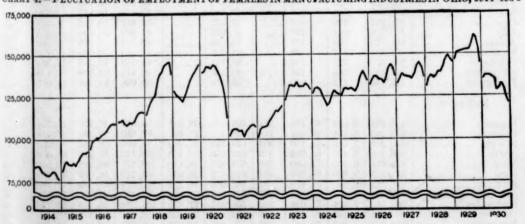


Chart 4.—Fluctuation of employment of females in manufacturing industries in Ohio, 1914–1930



## Fluctuation of Employment, by General Occupation Groups

In Table 6 the employees reported in each industry group are separated into three general occupation classifications—wage earners; bookkeepers, stenographers, and office clerks; and salespeople (not traveling). Males classified as wage earners formed 87.0 per cent of all male employees in 1928, 86.5 per cent in 1929, and 85.4 per cent in 1930. Females classified as wage earners formed 60.6 per cent of all female employees in 1928, 60.4 per cent in 1929, and 58.2 per cent in 1930. In 1930, bookkeepers, stenographers, and office clerks formed 10.2 per cent of the total males and 30.2 per cent of the total females and salespeople (not traveling) formed 4.4 per cent of the males and 11.6 per cent of the females.

TABLE 6.—NUMBER EMPLOYED ON THE 15TH OF EACH MONTH IN 1930 IN EACH GENERAL OCCUPATION GROUP IN OHIO, BY SEX AND INDUSTRY GROUP

TIT	
W age	earners

Sex and month	All indus- tries	Agri- cul- ture	Con- struc- tion	Fish- eries	Manu- factures	Mining and quarry- ing	Service	Trade, whole- sale and retail	Transportation and public utilities	Indus tries not other wise classi fied
Males										
fanuary	772, 586 801, 631 808, 416 791, 772 768, 264 751, 192 741, 156	5, 984 6, 051 7, 061 8, 162 8, 802 8, 887 9, 719 8, 464 8, 604 8, 610 7, 132 6, 204	49, 327 49, 151 54, 012 65, 872 74, 913 75, 896 78, 346 75, 752 71, 505 66, 756 56, 313 44, 213	212 214 304 318 386 352 281 287 320 329 325 212	524, 702 527, 203 526, 007 536, 328 531, 468 512, 936 488, 423 475, 737 469, 029 457, 848 439, 781 431, 416	27, 601 27, 697 27, 480 27, 316 26, 816 26, 937 26, 715 27, 204 27, 870 28, 909 28, 575 28, 008	55, 556 55, 525 56, 655 60, 158 60, 890 61, 425 59, 502 59, 021 59, 653 57, 774 56, 573 54, 530	47, 231 47, 048 47, 629 48, 301 48, 305 48, 135 47, 529 47, 012 46, 961 47, 169 46, 628 47, 158	53, 668 53, 438 55, 176 56, 836 57, 204 57, 749 57, 715 57, 214 55, 825 53, 154	
Females	002, 333	0, 204	11, 213	212	101, 110	25,008	01, 000	1, 108	50, 554	
fanuary February March April May une fuly August September October November December	167, 213 159, 298 158, 772 162, 384 160, 331	474 483 564 715 768 819 911 679 752 723 568 517	92 83 98 110 127 133 133 135 129 144 134 120		94, 526 97, 786 95, 741		41, 105 41, 415 41, 968 42, 681 42, 817 41, 269 40, 752 41, 363 41, 063	10, 239 10, 133 10, 407 10, 969 10, 876 10, 542 10, 004 9, 719 9, 954 10, 310 10, 619 11, 266	13, 817 13, 766 13, 617 13, 460 13, 680 13, 665 13, 354 12, 961 12, 400 12, 350 12, 163 11, 975	
Both sexes  January February March April May June July August September October November December	933, 255 940, 209 970, 201 976, 911 958, 985 927, 562 909, 964 903, 540 883, 551 843, 924	6, 458 6, 534 7, 625 8, 877 9, 570 9, 706 10, 630 9, 143 9, 356 9, 333 7, 700 6, 721	49, 419 49, 234 54, 110 65, 982 75, 040 76, 029 78, 479 75, 887 71, 634 66, 900 56, 447 44, 333	212 214 304 318 386 352 281 287 320 329 329 325 212	624, 499 628, 331 627, 529 637, 676 631, 831 612, 173 582, 050 570, 263 566, 815 553, 589 531, 326 519, 994	27, 601 27, 697 27, 480 27, 316 26, 816 26, 937 26, 715 27, 204 27, 870 28, 909 28, 575 28, 008	96, 571 96, 630 98, 070 102, 126 103, 571 104, 242 100, 771 99, 773 101, 016 98, 837 96, 987 94, 528	57, 470 57, 181 58, 036 59, 270 59, 181 58, 677 57, 533 56, 731 56, 915 57, 479 57, 247 58, 424	68, 332 67, 434 67, 055 68, 636 70, 516 70, 869 71, 103 70, 676 69, 614 68, 175 65, 317 62, 569	

TABLE 6.—NUMBER EMPLOYED ON THE 15TH OF EACH MONTH IN 1930 IN EACH GENERAL OCCUPATION GROUP IN OHIO, BY SEX AND INDUSTRY GROUP—Continued

Bookkeepers, stenographers, and office clerks

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Sex and month	All indus- tries	Agri- cul- ture	Con- struc- tion	Fish- eries	Manu- factures	Mining and quarry- ing	Service	Trade, whole- sale and retail	Trans- porta- tion and public utili- ties	Indus- tries not other- wise classi- fied
Males										
January	90, 678	101	3,045		45, 388	299	25, 542	8, 336	7, 951	16
February	90, 553	102	3,051		45, 259	299	25, 549	8, 320	7, 957	16
March	90, 912	104	3,065		45, 382	299	25, 700	8, 289	8,057	16
April	90, 948	107	3,092		45, 484	299	25, 637	8, 253	8,059	17
May	90, 929	107	3, 179		45, 250	299	25, 785	8, 219	8,072	18
June	90, 942	107	3, 235		45, 129	299	25, 810	8, 263	8, 081	18
July	90, 723	105	3,094		44, 822	299	26, 135	8, 133	8, 118	17
August	90, 036	104	3,126		44, 240	299	26, 059	8, 113	8,078	l i
September	88, 869	102	3, 087		43, 469	299	25, 747	8, 119	8, 029	17
October	89, 076	105	3,006		43, 984	299	25, 679	8,099	7, 886	18
November	88, 070	101	2, 986		43, 528	299	25, 300	8, 089	7,749	18
December	87, 593	100	2, 901		43, 223	299	25, 284	8, 041	7,727	18
Females	01,000	100	2, 001		10, 220	200	20, 201	0,011	1,121	10
Temates										
January	86, 206	302	2,258		34, 151	121	25, 444	16, 831	7,087	12
February	85, 836	326	2,259		34, 083	121	25, 466	16, 546	7,023	1:
March	86, 158	353	2,272		34, 043	121	25, 709	16, 644	7,004	1:
April	86,009	385	2,304		33, 824	121	25, 832	16,600	6, 929	14
May	86,000	391	2,314		33, 842	121	25, 875	16, 437	7,005	1.
June	85, 625	343	2,316		33, 524	121	25, 865	16, 342	7, 101	i
July		304	2,277		33, 100	121	25, 718	16, 095	7, 159	1
August		297	2, 257		32, 992	121	25, 553	15, 912	7, 211	1
September	83, 673	315	2, 228		32, 565	121	25, 458	15, 937	7,035	1
October	82, 590	323	2, 209		32, 086	121	25, 128	15, 833	6,876	1
November	81, 743	295	2, 177		31, 591	121	24, 868	15, 916	6, 762	1
December	81, 922	293	2, 143		31, 470	121	24, 805	16, 412	6, 667	1
Both sexes										
January	176, 884	403	5, 303		79, 539	420	50, 986	25, 167	15,038	9
February	176, 389	428	5,310		79, 342	420	51,015	24, 866	14, 980	2 2
March	177, 070	457	5, 337	1	79, 425	420	51, 409	24, 933	15, 061	2
April	176, 957	492	5, 396		79, 308		51, 469	24, 853	14, 988	3
May	176, 929	498	5, 493		79, 092	420	51, 660	24, 656	15, 077	3
June	176, 567	450	5, 551		78, 653		51,675	24, 605	15, 182	3
July		409	5, 371		77, 922		51, 853	24, 603	15, 182	3
August		401	5, 383		77, 232		51, 612	24, 025	15, 289	3
September	172 542	417	5,315		76, 034					
October	171, 666	428	5, 215		76,034		51, 205 50, 807	24, 056	15,064	3 3
November		396	5, 163					23, 932	14, 762	
December		393	5, 044		75, 119		50, 168	24, 005 24, 453	14, 511	3 2
Documber	100, 010	1 000	1 0,044	leeves:	74, 693	420	50, 089	24, 453	14, 394	1 2

TABLE 6.—NUMBER EMPLOYED ON THE 15TH OF EACH MONTH IN 1930 IN EACH GENERAL OCCUPATION GROUP IN OHIO, BY SEX AND INDUSTRY GROUP—Continued

 $Salespeople\ (not\ traveling)$ 

Sex and month	All indus- tries	Agri- cul- ture	Con- struc- tion	Fish- eries	Manu- factures	Mining and quarry- ing	Service	Trade, whole- sale and retail	Transportation and public utilities	Indu tries not other wise class fied
Males										
anuary	38, 257	47	581		3, 561		3,872	29, 208	988	
ebruary		43	595		3, 581		4,019	29, 005	993	*****
March		44	618		3, 590		4, 233	29, 108	992	******
pril	39, 460	68	620		3,619		4, 383	29, 759	1,011	*****
fay	39, 466	66	631		3,662		4, 397	29, 653	1,057	******
une		54	623		3,656		4, 307	29, 628	1,079	******
uly		52	628		3, 670		4, 224	28, 955	1,076	
ugust		45	635		3,667		4, 108	28, 535	1,084	*****
eptember	38, 402	50	658		3, 689		3, 955	28, 969	1,084	
October		54	649		3, 649		3, 827	29, 237		
November				1					1,067	
December	39, 449	51 54	649		3, 625		3, 687	29, 359	1,060	
	39, 449	04	610		3, 634		3, 591	30, 498	1,061	
Females										
anuary	30, 186	38	35		1, 294		242	28, 516	61	
ebruary		38	35		1, 303		256	28, 633	58	
Jarch		37	38		1,332		249	29, 759	74	
pril	33, 899	47	39		1, 335		286	32, 111	81	
lay	32, 172	48	39		1,352		289	30, 364	80	
une		35	36							
			33				318	30, 178	87	
uly		27			1,357		531	28, 083	84	
lugust		26	32		1,356		505	27, 553	82	
eptember		26	32				469	29, 211		
October		26	33		1, 333		450	30, 417	79	
November		29			1,306		434	32, 154	78	
December	42, 557	33	34		1,358		439	40, 610	83	
Both sexes									1	
anuary	68, 443	85	616		4, 855		4, 114	57, 724	1,049	
ebruary		81	630		4, 884		4, 275	57, 638	1.051	
farch	70, 074	81	656		4, 922		4, 482	58, 867	1,066	
pril		115	659		4, 954		4, 669	61, 870	1,000	
lay	71, 638	114	670		5,014		4,686	60, 017	1, 137	
ine										1
		89	659		5,012		4, 625	59, 806	1,166	
uly	68, 720	79	661		5,027		4, 755	57, 038	1,160	m m = = -
ugust	67, 628	71	667		5,023		4,613	56, 088	1,166	
eptember		76	690		5, 034		4, 424	58, 180	1,165	
etober	70, 821	80	682		4, 982		4, 277	59, 654	1,146	
November	72, 464	80	680		4, 931		4, 121	61, 513	1, 138	
December	82,006	87	644	1	4, 992		4,030	71, 108	1, 144	1

Table 7 shows for 1930 the month of maximum and month of minimum employment and also the variation in number employed in each of the three general occupation groups. The data for each occupation group are given by industry groups.

TABLE 7.—MAXIMUM AND MINIMUM EMPLOYMENT IN EACH GENERAL OCCUPATION GROUP IN OHIO, 1930, BY SEX AND INDUSTRY GROUP

#### Wage earners

	Ma	ximum	Mi	nimum	Variation maxim	
Sex and industry group	Number	Month	Number	Month	Number	Per
Males						
All industries	808, 410	May	662, 335	December	146, 081	18. 1
Agriculture	9, 719 78, 346	July	5, 984 44, 213	January December	3, 735 34, 133	38. 4 43. 6
Fisheries	386	May	212	January December	174	45. 1
Manufactures	536, 328 28, 909 61, 425 48, 305 57, 749	AprilOctober June May July	431, 416 26, 715 54, 530 46, 628 50, 594	July December_ November_ December_	104, 912 2, 194 6, 895 1, 677 7, 155	19. 6 7. 6 11. 2 3. 5 12. 4
Females						
All industries	168, 570	April	152, 454	do	16, 116	9. 6
Agriculture Construction Fisheries	911 144	July October	474 83	January February		48. 0
Manufactures Mining and quarrying	101, 522	March	88, 578	December	12, 944	12. 7
Service	42, 817	June	39, 998	December.	2, 819	6. 6
Trade, wholesale and retail Transportation and public utilities	11, 266 13, 817	December January	9, 719 11, 975	August December	1, 547	13. 7 13. 3
Both sexes						
All industries	976, 911	May	814, 789	do	162, 122	16. 6
Agriculture	10, 630 78, 479	July	6, 458 44, 333	January December	34, 146	39. 2 43. 5
Fisheries	386	May	212	January December	1 474	45. 1
Manufactures Mining and quarrying Service Trade wholesale and retail Transportation and public utilities	637, 676 28, 909 104, 242 59, 270 71, 103	April October June April July	519, 994 26, 715 94, 528 56, 731 62, 569	July December August December	117, 682 2, 194 9, 714 2, 539	18. 5 7. 6 9. 3 4. 3 12. 6

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EACH OUP-

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tries not other-

wise classified

TABLE 7.—MAXIMUM AND MINIMUM EMPLOYMENT IN EACH GENERAL OCCUPA.
TION GROUP IN OHIO, 1930, BY SEX AND INDUSTRY GROUP—Continued

## Bookkeepers, stenographers, and office clerks

Sex and industry group	Ma	ximum	Mi	nimum	Variation from maximum		
Sex and industry group	Number	Month	Number	Month	Number	Per	
All industries Males	90, 948	April	87, 593	December	3, 355	3.	
Agriculture	107 3, 235	April, May, June. June	} 100 2,901	do		6.	
Fisheries Manufactures Mining and quarrying Service	45, 484 (1) 26, 135	April (1) July	43, 223		2, 261 (¹)	5.	
Frade, wholesale and retailFransportation and public utilities	8, 336 8, 118	January July	8, 041	do	851 295 391	3. 3. 4.	
Females	86, 206	January	81, 743	November.	4, 463	5	
Agriculture Construction Fisheries	391 2, 316	May June	293 2, 143	December	98 173	25 7	
Manufactures Mining and quarrying ervice	34, 151 (1) 25, 875	January (1) May	31, 470 (1) 24, 805	December (1) December	2, 681 (1) 1, 070	7 (1)	
rade, wholesale and retailransportation and public utilities	16, 831 7, 211	January August	15, 833	October December	998 544	4 5 7	
Both sexes	177, 070	March	169, 515	December	7, 555	4	
griculture Construction	498 5, 551	May June	393 5, 044	do	105	21	
Sisheries  Annufactures  Ining and quarrying	79, 539 (1)	January	(i)	December	4, 846 (1)	(1)	
ervice	51, 853 25, 167 15, 289	July January August	50, 089 23, 932 14, 394	December October December	1, 764 1, 235 895	3 4	

#### Salespeople (not traveling)

All industries	39, 466	May	38, 074	August	1, 392	3, 5
Agriculture	68 658	AprilSeptember_	43 581	February	25 77	(2) 11.7
Fisheries Manufactures	3, 689	September.	3, 561	January	128	3, 5
Mining and quarrying	4, 397	May	3, 591	December	806	18.3
Trade, wholesale and retail	30, 498 1, 084	December	28, 535 988	August January	1, 963 96	6.4
Females All industries	42, 557	December.	29, 554		10.000	30.6
All mudstress	42, 301	December	29, 554	August.	13, 003	30.0
Agriculture	48	May	26	September, October,	22	(2)
ConstructionFisheries	39	April, May_	31	November.	8	(2)
Manufactures Mining and quarrying	1, 358	December	1, 294	January	64	4.7
ServiceTrade, wholesale and retail Transportation and public utilities	40, 610 87	July December June	27, 553 58	January August February	289 13, 057 29	54. 4 32. 2 (4)
All industries	82, 006	December_	67, 628	August	14, 378	17.5
AgricultureConstructionFisheries	115 690	April September_	71 616	January	44 74	38. 3 10. 7
Manufactures Mining and quarrying	5, 034	September.	4, 855	January	179	3.6
Service	4, 755 71, 108	July December	4, 030 56, 088	December August	725 15, 020	15. 2 21. 1
Transportation and public utilities	1, 166	June, August.	1, 049	January	117	10.0

<sup>4</sup> All "office help" and fluctuation not reported. 2 Not computed on account of small number involved.

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Per cent

3.7

10,3

5. 0 (1) 3. 3

7. 9 (1) 4. 1 5. 9 7. 5

4.3 9, 1

6.1 (1) 3.4 4.9 5.9

3.5 (2) 11, 7 3.5 18.3 8,9 30.6 (2)

(2)

4.7

32. 2 (•)

17.5

38. 3 10. 7

3.6 15. 2 21. 1 10.0

uum

The maximum, minimum, and average number of males and females reported in each of the three general occupation groups are shown in Table 8 for each of the years, 1924 to 1930.

TABLE S.-MAXIMUM, MINIMUM, AND AVERAGE NUMBER OF MALES AND FEMALES REPORTED IN EACH GENERAL OCCUPATION GROUP IN OHIO, 1924 TO 1930

Wage earners

Item	1924	1925	1926	1927	1928	1929	1930
	(31,740	(34,628	(37,181	(39,656	(40,992	(43,181	(44,307
	estab-						
	lish-						
	ments)						
Maximum month Minimum month Average of 12 monthly reports  Females	789, 457	837, 381	875, 444	836, 494	869, 270	916, 978	808, 416
	730, 615	744, 327	787, 792	749, 785	725, 946	782, 529	662, 335
	755, 062	800, 471	833, 030	805, 001	817, 288	868, 834	753, 395
Maximum month Minimum month Average of 12 monthly reports	148, 403	160, 576	168, 944	172, 279	178, 214	191, 212	168, 570
	137, 779	144, 391	154, 712	156, 733	157, 861	174, 078	152, 454
	144, 477	152, 297	161, 136	164, 440	169, 068	182, 555	162, 726

#### Bookkeepers, stenographers, and office clerks

Males							
Maximum month	68, 218	71, 374	74, 574	76, 309	79, 460	85, 400	90, 948
	67, 497	68, 572	71, 862	73, 876	75, 288	80, 662	87, 593
	67, 864	70, 248	73, 613	75, 405	77, 640	83, 529	89, 944
Maximum month  Minimum month  Average of 12 monthly reports	66, 627	71, 104	75, 017	77, 173	79, 591	86, 644	86, 206
	65, 374	67, 465	71, 169	74, 745	74, 694	82, 076	81, 743
	65, 979	69, 104	73, 173	76, 006	77, 072	85, 003	84, 575

#### Salespeople (not traveling)

Males							
Maximum month  Minimum month  Average of 12 monthly reports	36, 005	38, 397	42, 273	43, 549	47, 734	54, 724	39, 466
	32, 628	34, 499	38, 357	39, 951	42, 228	48, 489	38, 074
	34, 136	36, 448	40, 097	41, 347	44, 639	51, 920	38, 733
Females							
Maximum month Minimum month Average of 12 monthly reports	36, 363	39, 267	40, 416	43, 315	46, 822	47, 137	42, 557
	25, 750	27, 002	27, 264	29, 023	29, 135	30, 923	29, 554
	27, 970	29, 211	29, 797	31, 949	32, 834	34, 781	32, 487

Table 9 presents a comparison of employment fluctuation in 1930 for males and females in all industries combined and in each of four industry groups which employ large numbers both of males and of females. The comparisons are for each of the three general occupation groups.

In the wage earners group, males show the wider fluctuation except in trade and in transportation and public utilities. In the clerical group and in the sales group females show a wider fluctuation than

do males in each of the industry groups.

TABLE 9.—PER CENT OF VARIATION FROM MAXIMUM EMPLOYMENT OF MALES AND FEMALES IN GENERAL OCCUPATION GROUPS IN OHIO, 1930, BY SPECIFIED INDUSTRY GROUPS

Industry group	Wage 6	earners		pers, ste- hers, and erks	Sales people (not traveling)	
	Males	Females	Males	Females	Males	Females
All industries  Manufactures Service Trade, wholesale and retail Transportation and public utilities	18. 1 19. 6 11. 2 3. 5 12. 4	9. 6 12. 7 6. 6 13. 7 13. 3	3. 7 5. 0 3. 3 3. 5 4. 8	5. 2 7. 9 4. 1 5. 9 7. 5	3. 5 3. 5 18. 3 6. 4 8. 9	30. (4. 54. 32. (1)

<sup>&</sup>lt;sup>1</sup>Not computed owing to small number involved.

# **EMPLOYMENT CONDITIONS**

MALES

ple (not

Females

30.6 4.7 54.4

32.9

## Made Work for Clerical Workers

BELIEVING that a need existed for the dissemination of information with regard to made-work programs in force for white-collar workers, the President's Organization on Unemployment Relief asked the Women's Bureau of the United States Department of Labor to undertake such a study. The preliminary report of the Women's Bureau is now available.

In commenting on the findings set forth in the report, Fred C. Croxton, assistant director of the President's Organization on Unemployment Relief, in a press release of February 4, 1932, calls attention to the fact that white-collar workers, under normal conditions, enjoy greater stability of employment than do other wage earners and are often less able to adjust themselves quickly to new lines of employment. The result is that special problems arise in the placement of these workers in periods of depression and special machinery is required for their placement and relief.

The specific fields of work recommended on the basis of this study include: (1) Special projects for white-collar workers; (2) supervisory work on projects for unskilled manual workers; (3) additions to the force in relief and welfare offices; and (4) additions to the force in nonprofit-making institutions. Among the special projects suggested are traffic counts, study of accidents, topographical surveys, and checking school attendance.

It is further brought out that special registration of white-collar workers is desirable and that in some instances it has been found advantageous to use volunteer investigators in interviewing unemployed white-collar workers.

# **Unemployment in Foreign Countries**

THE following table gives detailed monthly statistics of unemployment in foreign countries, as shown in official reports, from January, 1930, to the latest available date.

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#### STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES 1

	Aust	ralia	Austri	а		Belg	gium		Canad
Date (end of month)	Trade-u unem		sory in	,	mployr	nent i	nsurance s	ocieties	Per cer
Date (end of month)	Number	Per	ployed in re-	unem- ployed in re- ceipt of		m-	Partiall plo	of trade- unionists unem- ployed	
		Con	benefi		er Per	cent	Number	Per cent	
1930	(2)		-		10		0		
January	(2)		273, 1			3. 5 2. 6	25, 782 31, 222	4.0	10
February March	63, 144	14.	6 239, 0			2. 2	28, 469	4. 5	11
April	(1)	A.A.	192, 4		15	2. 2	36, 065	5.8	10
May	(2)		162, 6			1. 9	38, 761	6. 1	9
June	80, 595	18.				1. 9	41, 336	6.5	10
July	(2)		153, 1			2.4	48, 580	7.7	9
August	(2)		156, 1			2.8	51, 649	8. 2	1 8
September	90, 279	20.		23, 6	93	3.8	61, 623	9.9	1 8
October	(2)		192, 7	78 27,3	22	4.3	54, 804	8. 5	10
November	(2)		237, 74	15 38, 9	73	6. 1	76, 043	12. 0	13
December	104, 951	23.	4 294, 8	63, 5	85	9. 3	117, 167	17. 0	17
1931									
January	(2)		331, 2	39 77, 1	81	11. 1	112, 734	16. 2	16
February	(1)		334, 0		50	11.7	121, 906	19. 4	18
March	113, 614	25.		84 81, 3	05	11. 3	125, 972	17. 7	18
April	(2)		246, 8	15 70, 3	77	10. 0	110, 139	15. 6	14
May	(2)		208, 8	52 56, 2	50	7. 9	97, 755	13. 8	16
une	118, 424	27.	6 191, 1	62, 6		8.9	101, 616	14. 4	1 16
uly	(2)		194, 3			9. 1	116, 747	16. 3	16
August	(2)		196, 3			9. 9	120, 669	16. 8	1/2
September	120, 694	28.				10. 3	119, 433	16. 6	18
October	(2)		228, 10			11. 3	122, 773	16.8	18
November		00	273, 6			13. 3 17. 0	134, 799	19. 2	19
December	118, 732	28.	0 329, 5	120, 0	00	17.0	*********		. 2
1932									100
	/45		0.00	04	1		I MADE		
anuary	(2)		358, 10	04					
January	(2)		358, 10	04					
January	(2)	Cze	358, 10		Danz (Fre	0	Denn	nark	Estoni
Date (end of month	) Numof uplo	mber nem- oyed	echoslovak Trade-uni ance fu	on insur- inds—un- d in re-	Numl of une ploye	e of)	Trade-uni	on unem-	Numbe unem- ployed remaini
	) Numof uple on	mber nem-	Trade-uni ance fu	on insur- inds—un- d in re-	Numl of une	e of) ber em-ed red	Trade-unic	on unem-	Number unemployee
1930	Numof uplo	mber nem- oyed live	Trade-uni ance fu employe ceipt of	on insur- inds—un- in re- benefit  Per cent	Numl of une ploye registe	ber of) ber om- ed red	Trade-unic ploymen unemplo Number	on unem- t funds— oyed  Per cent	Number unemployee remaini on live registe
Date (end of month	Numof uploon reg	mber nem- oyed live ister	Trade-uni ance fu employe ceipt of Number	on insur- inds—un- d in re- benefit  Per cent  3. 6	Numl of une ploye registe	ber em-ed -	Trade-unic ploymen unemplo Number	on unem- t funds— eyed  Per cent  20. 3	Number unemployee remainion liveregiste
Date (end of month	Numof u ple on reg	mber nem- byed live ister 3, 891 6, 156	Trade-uni ance fu employe ceipt of Number	on insur- nds—un- d in re- benefit  Per cent  3.6 3.6	Numl of une ploye registe	ber em-ed -	Trade-unic ploymen unemplo Number 55, 876 59, 363	on unem- t funds— yed  Per cent  20. 3 21. 0	Number unemployee remaini on live registe
Date (end of month  1930  January  February  March	Numof upkon reg	mber nem- byed live ister 3, 891 6, 156 8, 005	Trade-uni ance fu employe ceipt of Number	on insur- unds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0	Number of une ploye registe	ber of	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109	on unem- trunds— yed  Per cent  20. 3 21. 0 15. 6	Number unemployee remaini on live registe
Date (end of month	Numof uploon reg	mber nem- oyed live ister 3, 891 6, 156 8, 005 9, 721	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664	on insur- inds—un- ind in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7	Numl of une ploye registe	ber of	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471	on unem- tfunds— oyed  Per cent  20. 3 21. 0 15. 6 11. 8	Number unemployee remaining on liver register 5, 4, 3, 2, 2,
Date (end of month  1930  January  February  March  April	Numof u ple on reg	mber nem- oyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098	on insur- inds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8	Numl of une ploye registe	ber of ord	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471 27, 966	on unem- t funds— yed  Per cent  20. 3 21. 0 15. 6 11. 8 9. 4	Numbunem- ployer remaini on live registe
Date (end of month  1930  January February March April May	7	mber nem- nem- nem- nem- nem- nem- nem- nem-	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853	on insur- nds—un- d in re- benefit  Per cent  3.6 4.0 3.7 3.8 3.4	Numl of une ploye registe	ber of ord	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471 27, 966 24, 807	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7	Numbunem ployec remaini on live registe
Date (end of month  1930  January February March April May June	77 77 77 77 77	mber nem- pyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800	on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1	Numl of une ploye registe	282 153 376 371 232 2975 330	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3	Numbunem ployee remaini on live registe
Date (end of month  1930  January February March April May June July	7 Numof uple on reg	mber nem- oyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694	on insur- inds—un- ind in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15,	ee of) ber med	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0	Numbunem ployer remaini on liv registe
Date (end of month  1930  January February March April May June July August September October	77 77 77 88 100 12	mber nem- pyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800	on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	282 153 376 371 232 2975 330	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3	Numbunem ployee remaining on live registe
Date (end of month  1930 January February March April May June June July August September Dotober November	7 Numof uploon reg	mber nem- yyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 994	on insur- inds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20,	282 153 376 371 2975 330 687 073 307 272	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880 44, 200	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3	Numbunem ployer remaini on livregiste
Date (end of month  1930 Sanuary February March April May une uly August September November	7 Numof uploon reg	mber nem- nem- nem- nem- nem- nem- nem- nem-	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213	on insur- inds—un- d in re- benefit  Per cent  3.6 4.0 3.7 3.8 3.4 4.1 4.7 5.3 5.5	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17,	282 153 376 371 2975 330 687 073 307 272	Trade-unic ploymen unemplo Number 55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0	Numbunem ployer remaini on livregiste
Date (end of month  1930 Sanuary February March April May une uly August September Doctober November	7 Numof uploon reg	mber nem- yyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 994	on insur- inds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20,	282 153 376 371 2975 330 687 073 307 272	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880 44, 200	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3	Numbunem ployer remaini on livregiste
Date (end of month  1930  Sanuary  February  March  April  May  June  July  August  September  Doctober  November  December	77 77 77 8 10 12 23	mber nem- yyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476	a on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 16, 17, 20, 24,	282 282 153 376 371 232 975 330 687 073 307 272 429	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6	Numbunem ployee remaini on liveregiste
Date (end of month  1930 Sanuary February March April May June Luly August September December December 1931 Sanuary	Numof u ple on reg  7 8 8 8 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1	mber nem- yed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564 3, 511	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476	on insur- inds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 16, 17, 20, 24,	282 153 3376 3371 232 975 330 687 073 307 272 2429	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100 70, 961	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3	Numbunemployeeremainion liveregiste
Date (end of month  1930  Sanuary  February  March April  May  une  uly  August September  October  November  December  1931  Sanuary  February	7 Numof un plu of un plu on reg 8 8 7 7 7 7 7 7 8 8 10 12 15 23 31 34 33 34 33 34 33	mber nem- yyed live ister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 972 9, 505	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476	on insur- inds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28,	282 153 3376 3371 232 975 330 687 073 307 272 2429	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 230 26, 232 27, 700 32, 880 44, 200 71, 100  70, 961 73, 427 67, 725	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1	Numbunemployeeremainion liveregiste  5, 4, 3, 3, 2, 2, 2, 1, 1, 3, 3, 5, 6, 6, 5, 4, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Date (end of month  1930  January February March April May June July August September October November December December 1931 January February March April	77	mber nem- yyed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564 3, 511 3, 972 6, 756	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 1107, 238	a on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0 8. 9	Numl of une ployer registe  19, 21, 20, 18, 16, 14, 15, 16, 17, 20, 24, 27, 28, 27, 24, 24, 27, 24,	282 282 283 376 371 232 972 330 687 073 377 272 429	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100  70, 961 73, 427 67, 725 45, 698	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3	Numbunem ployer remaini on livregiste  5, 4, 3, 2, 2, 2, 1, 1, 3, 5, 5, 6, 6, 5, 4, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
1930 February March April May September October November December 1931 February February March Andril	Numof u ple on reg  7 8 8 8 7 7 7 7 8 10 12 15 23 31 34 33 290	mber nem- yed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564 3, 511 3, 972 9, 505 6, 756 9, 686	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941	on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0 8. 9 7. 6	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20,	282 153 376 371 232 2975 330 687 073 307 272 429 081 192 070 686	Trade-unic ploymen unemplo Number  55, 876 59, 363 47, 109 33, 471 27, 966 24, 807 26, 200 26, 232 27, 700 32, 880 44, 200 71, 100  70, 961 73, 427 67, 725 45, 698 37, 856	Per cent  20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 24. 6 24. 2 26. 0 22. 1 15. 3 12. 3	Numbu unem ployee remaini on live registe  5, 4, 3, 2, 2, 2, 1, 1, 3, 5, 6, 6, 4, 2, 2, 2, 1, 1, 1, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1930 January February March April May June July August September October November December 1931 January February March April May June	7 Numof un plu on reg 8 8 7 7 7 7 8 8 10 12 15 23 31 34 33 29 24 22 22	mber nem- yyed live ister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 972 9, 505 6, 756 9, 686 9, 686 9, 686	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534	on insur- inds—un- d in re- benefit  Per cent  3.6 4.0 3.7 3.8 4.1 4.7 5.3 5.5 5.9 8.3  9.5 10.0 10.0 8.9 7.6 6.6	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20, 19, 19	282 153 376 371 2975 330 687 073 3307 272 429 081 192 070 186 6855	Trade-unic ploymen unemplo    Number    55, 876   59, 363   47, 109   33, 471   27, 966   24, 807   26, 200   26, 232   27, 700   32, 880   44, 200   71, 100    70, 961   73, 427   67, 725   45, 698   37, 856   34, 030	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3 11. 3	Numbunem ployer remaini on live registe  5, 4, 3, 3, 2, 2, 2, 1, 1, 3, 5, 6, 6, 5, 4, 4, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Date (end of month  1930  January February March April May June July August September October November December 1931  January February March April May June June June June June June June June	Numof un plu of	mber nem- yyed live lister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 972 9, 505 6, 756 9, 686 0, 038 9, 233	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 534 82, 759	on insur- inds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 6 6. 6	Numl of une ployer registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20, 19, 20,	282 153 376 371 232 297 5 330 687 070 186 686 686 686 420	Trade-unic ploymen unemplo Number   55, 876   59, 363   47, 109   33, 471   27, 966   24, 807   26, 230   27, 700   32, 880   44, 200   71, 100   70, 961   73, 427   67, 725   45, 698   37, 856   34, 030   36, 369	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3 11. 3 11. 8	Numbunem ployer remaini on livregiste  5, 4, 3, 3, 2, 2, 1, 1, 3, 5, 5, 6, 6, 5, 4, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Date (end of month  1930  January	Numof u ple on reg  7 8 8 8 7 7 7 7 7 8 10 12 15 23 31 34 33 29 24 22 20 21	mber nem- yed live ister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 972 6, 756 9, 686 0, 038 9, 233 4, 520	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 759 86, 261	on insur- mds—un- d in re- benefit  Per cent  3. 6 3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0 10. 0 9. 7. 6 6. 6 6. 6 6. 6 6. 9	Numbof une ployer registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20, 19, 20, 21,	282 282 283 376 371 232 935 935 936 887 972 429 081 192 429 186 686 885 509	Trade-unic ploymen unemplo   Number    55, 876   59, 363   47, 109   33, 471   27, 966   24, 807   26, 200   26, 232   27, 700   32, 880   44, 200   71, 100    70, 961   73, 427   67, 725   45, 698   37, 856   34, 030   36, 369   35, 060	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3 12. 3 11. 3 11. 8 11. 8	Numbunem ployee remaini on livregiste  5, 4, 3, 2, 2, 2, 2, 6, 6, 5, 4, 2, 2, 1, 1, 1, 2, 2, 2, 1, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 1, 1, 1, 2, 2, 2, 2, 1, 1, 2, 2, 2, 2, 1, 1, 2, 2, 2, 2, 2, 1, 1, 2, 2, 2, 2, 2, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Date (end of month  1930  January	Numof u ple on reg  7 8 8 8 7 7 7 7 8 10 12 15 23 31 34 33 29 24 22 20 21 22	mber nem- yed live ister 3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 4, 534 2, 379 5, 203 9, 564 3, 511 3, 972 9, 505 6, 756 6, 756 6, 756 6, 756 0, 038 9, 233 4, 529 8, 383	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 759 80, 261 84, 660	on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 9 6. 7	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20, 19, 20, 21, 21, 22,	282 282 2153 376 371 376 371 377 272 429 081 192 070 186 686 855 420 592	Trade-unic ploymen unemplo with the ploymen unemplo state of the ploymen of the ploymen state	Per cent  20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 24. 6  24. 2 26. 0 22. 1 15. 3 11. 3 11. 8 12. 1	Numbunem ployee remaini on liv registe  5, 4, 3, 2, 2, 2, 1, 1, 3, 5, 6, 6, 6, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
1930 January February March April May June July August September December December Jebruary January February March April May June July August September Jebruary March April May June July August September July August September July August September July August September Dectober	Numof un plu on reg  77 88 88 77 77 78 80 10 12 15 23 31 34 33 29 24 22 20 21 22 25	mber nem- yyed live ister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 972 9, 505 6, 756 9, 686 9, 688 9, 233 4, 520 8, 383 3, 518	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 417 82, 759 86, 261 84, 660 88, 660	on insur- inds—un- d in re- benefit  Per cent  3.6 4.0 3.7 3.8 4.1 4.7 5.3 5.5 5.9 8.3  9.5 10.0 10.0 8.9 7.6 6.6 6.6 6.9 6.7 6.9	Numl of une ploye registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 24, 20, 19, 20, 21, 22, 24,	282 153 376 371 2975 330 687 073 307 272 429 081 192 070 186 685 420 509 9922 932	Trade-unic ploymen unemplo with the ploymen unemplo state of the ploymen of the ploymen state	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3 11. 8 11. 8 11. 8	Numbunem ployer remaini on livregiste  5, 4, 3, 3, 2, 2, 2, 1, 1, 3, 5, 6, 6, 5, 4, 2, 2, 1, 1, 1, 2, 5, 5, 6, 6, 1, 2, 2, 2, 1, 1, 1, 2, 5, 5, 6, 1, 1, 1, 2, 2, 5, 5, 5, 6, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Date (end of month  1930  January February March April May June July August September Doctober November December J931  January February March April May June June June June June June June June	Numof un plu of un plu on reg  77 88 87 77 77 77 89 100 12 15 23 31 344 33 29 24 22 20 21 22 25 33	mber nem- yed live ister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 511 3, 972 9, 505 6, 756 9, 686 0, 038 9, 233 4, 520 8, 383 3, 518 6, 874	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 93, 476 104, 580 117, 450 119, 350 107, 238 93, 941 82, 759 80, 261 84, 660	on insur- inds—un- d in re- benefit  Per cent  3. 6 4. 0 3. 7 3. 8 3. 4 4. 1 4. 7 5. 3 5. 5 5. 9 8. 3  9. 5 10. 0 10. 0 8. 9 7. 6 6. 6 6. 9 6. 7	Numl of une ployer registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20, 19, 20, 21, 22, 24, 28,	282 153 376 371 232 282 153 376 371 232 429 081 192 070 186 686 845 542 966	Trade-unic ploymen unemplo with the ploymen unemplo state of the ploymen	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3 11. 3 11. 8 11. 8 11. 8 12. 1 16. 0 22. 3	Numb unem ployer remaini on liv registe  5, 4, 3, 3, 2, 2, 2, 1, 1, 3, 5, 6, 6, 4, 2, 2, 2, 1, 1, 1, 2, 5, 5, 6, 1, 2, 2, 2, 2, 1, 1, 2, 5, 5, 6, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
Date (end of month  1930 anuary Pebruary March Loril L	Numof un plu of un plu on reg  77 88 87 77 77 77 89 100 12 15 23 31 344 33 29 24 22 20 21 22 25 33	mber nem- yyed live ister  3, 891 6, 156 8, 005 9, 721 7, 069 3, 464 7, 309 8, 005 4, 534 2, 379 5, 203 9, 564  3, 511 3, 972 9, 505 6, 756 9, 686 9, 688 9, 233 4, 520 8, 383 3, 518	Trade-uni ance fu employe ceipt of Number 39, 199 40, 550 45, 567 42, 664 41, 098 37, 853 46, 800 52, 694 57, 542 61, 213 65, 904 93, 476 104, 580 117, 450 119, 350 107, 238 93, 417 82, 759 86, 261 84, 660 88, 660	on insur- inds—un- d in re- benefit  Per cent  3.6 4.0 3.7 3.8 4.1 4.7 5.3 5.5 5.9 8.3  9.5 10.0 10.0 8.9 7.6 6.6 6.6 6.9 6.7 6.9	Numl of une ployer registe  19, 21, 20, 18, 16, 14, 15, 15, 16, 17, 20, 24, 27, 28, 27, 24, 20, 19, 20, 21, 22, 24, 28,	282 153 376 371 2975 330 687 073 307 272 429 081 192 070 186 685 420 509 9922 932	Trade-unic ploymen unemplo with the ploymen unemplo state of the ploymen of the ploymen state	20. 3 21. 0 15. 6 11. 8 9. 4 8. 7 9. 3 9. 0 9. 0 11. 4 15. 3 24. 6 24. 2 26. 0 22. 1 15. 3 11. 8 11. 8 11. 8	Numbunem ployee remaini on liv registe  5, 4, 3, 2, 2, 2, 1, 1, 3, 5, 6, 6, 6, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,

See footnotes at end of table.

#### EMPLOYMENT CONDITIONS

#### STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES-Continued

	Fi	nland	France		Ge	rmany		
Date (end of month)	N	imber	Number	Number		Trade-u	nionists	1
	of p	unem- oyed istered	of unem- ployed in receipt of benefit	of unem- ployed registered	Per cent wholly un employed	- partial	ly un- oyed	Number unem- ployed in receipt of benefit
1930		10 000	1 404	9 917 800	90		11.0	0 400 640
January		12, 696 11, 545 10, 062 7, 274 4, 666 3, 553 4, 026 5, 288 7, 157 10, 279 10, 740 9, 336	1, 484 1, 683 1, 630 1, 203 859 1, 019 856 964 988 1, 663 4, 893 11, 952	3, 217, 608 3, 365, 811 3, 040, 797 2, 786, 912 2, 634, 718 2, 640, 681 2, 765, 258 2, 883, 000 3, 004, 000 3, 252, 000 4, 384, 000 4, 384, 000	23, 21. 20. 19. 19. 20. 21. 22. 23. 26.	5 7 3 5 5 6 6 7 7 5 5 6 6 0 0	11. 0 13. 0 12. 6 12. 1 12. 0 12. 6 13. 9 14. 8 15. 1 15. 4 16. 1 16. 9	2, 482, 648 2, 655, 723 2, 347, 102 2, 081, 068 1, 889, 240 1, 834, 662 1, 900, 961 1, 947, 811 1, 965, 348 2, 071, 730 2, 353, 980 2, 822, 598
1931		, , ,						-,,
January February March April May June July August September October November December		11, 706 11, 557 11, 491 12, 663 7, 342 6, 320 6, 790 9, 160 12, 176 14, 824 18, 095	28, 536 40, 766 50, 815 49, 958 41, 339 36, 237 35, 916 37, 673 38, 524 51, 654 92, 157 147, 009	4, 887, 000 4, 972, 000 4, 756, 000 4, 356, 000 4, 053, 000 3, 976, 000 4, 215, 000 4, 355, 000 4, 623, 480 5, 059, 773 5, 668, 187	34. 33. 31. 29. 29. 31. 33. 35. 36. 38.	5 6 2 9 7 7 0 6 1 1 6 9	19. 2 19. 5 18. 9 18. 0 17. 4 17. 7 19. 1 21. 4 22. 2 22. 0 21. 8 22. 3	3, 364, 770 3, 496, 979 3, 240, 523 2, 789, 627 2, 507, 732 2, 353, 657 2, 231, 513 2, 376, 589 2, 483, 364 2, 534, 952 2, 771, 985 3, 147, 867
January			241, 487	6, 041, 000				
	Great B	ritain a	nd Norther	n Ireland	Great Britain		Hunga	
Date (end of month)			ory insuran		Number of persons		employ	
	Wholly	unem- yed		rary stop- ages	registered with em- ployment	Chris- tian		al-Demo- cratic
	Number	Perce	nt Numbe	Percent	exchanges	(Buda- pest)	Numi	per Percent
1930	1 100 074		8 336, 474	0.0	1 401 510	1, 161	01.5	22 14 5
January February March April May June July August September October November December	1, 309, 014 1, 339, 595 1, 341, 818 1, 405, 981 1, 500, 990 1, 579, 708 1, 725, 731 1, 836, 280	10. 10. 11. 11. 11. 12. 13. 13. 14.	0   371, 844 6   409, 784 8   451, 500 1   516, 303 1   569, 933 6   664, 103 4   618, 653 1   608, 693 9   593, 223 8   532, 518	3.1 3.4 3.8 4.2 4.7 5.5 5.1 5.0 4.8 4.3	1, 491, 519 1, 539, 265 1, 677, 473 1, 698, 386 1, 770, 051 1, 890, 575 2, 011, 467 2, 039, 702 1, 114, 955 2, 200, 413 2, 274, 338 2, 392, 738	1, 101 1, 120 983 906 875 829 920 847 874 999 975 935	21, 30 21, 30 21, 00 20, 13 19, 8 18, 90 21, 00 22, 9 22, 9 23, 3 24, 6	09
January 1931	2, 044, 209	16.			2, 613, 749	953	26, 1	
February March April May June July August September October November December	2, 073, 578 2, 052, 826 2, 027, 896 2, 019, 533 2, 037, 480 2, 073, 892 2, 142, 821 2, 217, 080 2, 305, 388 2, 294, 902	16. 16. 16. 16. 16. 16. 16. 16. 17. 17. 17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	7 623, 844 5 612, 823 3 564, 884 3 558, 383 4 669, 383 7 732, 583 3 670, 343 9 663, 464 1 487, 59 0 439, 953	5. 0 5. 0 4. 6 4. 5 5. 4 5. 4 5. 3 5. 4 5. 3 5. 4 5. 3 8 8 1 3. 8	2, 627, 559 2, 581, 030 2, 531, 674 2, 596, 441 2, 629, 215 2, 662, 765 2, 732, 434 2, 879, 466 2, 755, 559 2, 656, 088 2, 569, 949	965 996 1, 042 843 751 876 941 932 1, 020 1, 169 1, 240	27, 0 27, 0 27, 1 26, 1 23, 6 26, 3 28, 4 28, 7 28, 9 29, 9	89
January 1932	2, 354, 044	-	4 500, 74	6 4.0	2, 728, 411			

See footnotes at end of table.

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cent radeionists iemoyed

10. 8 11. 5 10. 8 9. 0 10. 3 10. 6 9. 2 9. 3 9. 4 10. 8 13. 8 17. 0

16. 0 15. 6 15. 5 14. 9 16. 2 16. 3 16. 2 15. 8 18. 1 18. 3 18. 6 21. 1

mber emyed lining live ster

5, 608 4, 580 3, 575 2, 227 2, 065 910 762 1, 039 1, 414 3, 282 5, 675 6, 163

5, 364 4, 070 2, 765 2, 424 1, 368 931 634 933 2, 096 5, 425 7, 554

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#### STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES-Continued

	Irish Fre	ee State	Ita	aly	Latvia	Netherlands		
Date (end of month)	Compulso ance—une			of unem- egistered	Number unem- ployed	ties—u	loymen ace socie nemploye	
	Number	Per cent	Wholly unem- ployed	Partially unem- ployed	remaining on live register	Number	Per cer	
1930								
January February	31, 592	11.1	466, 231 456, 628	23, 185 26, 674			,	
March			385, 432	28, 026				
April		9. 2	372, 236	24, 305				
May	(2)		367, 183	22, 825		26, 211	6	
une	(2)		322, 291	21, 887			5	
July		8. 2	342, 061	24, 209				
August			375, 548 394, 630	24, 056				
SeptemberOctober		(2)	446, 496	22, 734 19, 081				
November	22, 990	(2)	534, 356	22, 125				
December	25, 622	(2) (2) (2)	642, 169	21, 788	10, 02			
	-5, 552	.,		34,	1 20, 32	0.,50	10	
1931 January	26, 167	(2)	722, 612	27, 924	9, 20	7 100, 340	00	
February	28, 681	(2)	765, 325	27, 110				
March	26, 825	(2)	707, 486	27, 545				
April	25, 413	(3)	670, 353	28, 780	6, 39	0 68,860		
May		(2)	635, 183	26, 059	1, 87	1 60, 189	12	
June		(2)	573, 593	24, 206				
July		(2)	637, 531	25, 821				
August	21, 647 21, 897	(2)	693, 273	30, 636 29, 822				
October	23, 427	(2)	747, 764 799, 744	32, 828			18	
November	26, 353	(2) (2) (2) (2) (2) (2)	878, 267	30, 967				
December	30, 865	(2)	982, 321	32, 949				
1932								
January			1, 051, 321			145, 124	27	
			3, 004, 001		1	2 10, 121	21	
	Trade-unionists unemployed		N					
Date (end of month)				ons) un-	Number unem-	Number unem-	Numbe unem-	
Date (end of month)				ons) un-			unem- ployed remain ing on live	
1930	Number	Per	(10 unid employe	Per cent	unem- ployed remain- ing on live register	unem- ployed registered with em- ployment offices	unem- ployed remain ing on live register	
January 1930	Number (*)	Per cent	Number	Per cent	unem- ployed remain- ing on live register	unem- ployed registered with em- ployment offices	unem- ployed remain ing on live registe	
1930 JanuaryFebruary	Number  (1) 4, 348	Per	Number  7, 786 7, 851	Per cent	unem- ployed remain- ing on live register 22, 549 22, 974	unem- ployed registered with em- ployment offices 241, 974 274, 708	unemployed remain ing on live registe	
1930 January February March	Number  (1) 4, 348	Per cent	(10 unid employe Number 7, 786 7, 851 7, 503	Per cent 19. 0 18. 9 17. 8	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469	unem- ployed remain ing on live registe	
1930 January February March April	Number  (1) 4, 348 (2) (2)	Per cent	(10 unidemployee) Number  7, 786 7, 851 7, 503 6, 701	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225	unem- ployed remain ing on live registe	
1930 January February March A pril May	Number  (1) 4, 348 (2) (2) 5, 884 (2)	Per cent	(10 unidemployees) Number  7, 786 7, 851 7, 503 6, 701 5, 239 4, 700	Per cent  19.0 18.9 17.8 15.8 12.2 10.8	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982	unem- ployed remain ing on live registe	
1930 January February March April May June	(*) 4, 348 (*) 5, 884 (*) (*) (*)	Per cent	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 10. 8	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687	unem- ployed remain ing on live registe 12, 15, 13, 25, 22, 8, 23,	
January	(3) 4, 348 (2) 5, 884 (2) (2) 7, 197	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 10. 8 13. 4	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627	unem- ployed remain ing on live registe 12, 15, 13, 25, 22, 23, 24,	
January February March April May June July Adugust	(3) 4, 348 (2) 5, 884 (2) (2) 7, 197	Per cent	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 10. 8 13. 4 15. 7	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467	unem- ployed remain ing on live register 12, 15, 13, 425, 22, 23, 24, 39,	
1930 January February March April May June July August September	Number  (1) 4, 348 (2) (2) 5, 884 (3) (2) (2) (3) (4) (7, 197 (2) (2)	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154	unem- ployed remain ing on live register 12, 6 15, 3 13, 4 25, 22, 8 22, 24, 3 39, 36, 36, 36, 36, 36, 36, 36, 36, 36, 36	
1930 January February March April May June June July August September Dotober November	(*) 4, 348 (*) 5, 884 (*) 7, 197 (*) 8, 119	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 13. 4 15. 7 18. 0 21. 4	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912	unemployed remain ing on live register 12, 6, 15, 3, 13, 6, 22, 23, 24, 23, 39, 136, 42, 42, 42, 42, 42, 42, 42, 42, 42, 42	
1930 January	Number  (1) 4, 348 (2) (2) 5, 884 (3) (2) (2) (3) (4) (7, 197 (2) (2)	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0	unem- ployed remain- ing on live register 22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154	unemployed remain ing on live register 12, 6, 15, 3, 13, 6, 22, 23, 24, 23, 39, 136, 42, 42, 42, 42, 42, 42, 42, 42, 42, 42	
January February March April May June July August September December December	(2) 4, 348 (2) (2) 5, 884 (3) (2) 7, 197 (2) (3) (4) (5) (5) (8) (1) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	Per cent 8. 5 10. 9	7, 786 7, 851 7, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remaining on live register  22, 549 22, 544 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 120 209, 912 299, 797	unem- ployed remain ing on live register 12,6 15,5 13,6 25,6 22,5 23,2 24,2 39,1 36,1 42,6 42,6 42,6 36,2	
January February March April May June July August September December December J931 January	(2) (3) (4, 348 (2) (4) (5) (5) (8, 119 (7) (7) (8) (19) (19)	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 13. 4 15. 7 18. 0 21. 4	unem-ployed remaining on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718	unemployed remain ing on live register 12, 6, 15, 8, 13, 4, 25, 22, 9, 23, 24, 24, 24, 24, 24, 36, 36, 36, 36, 36, 36, 36, 36, 36, 36	
J930 January February March April May June July Adugust Beptember October November December J931 January February	(1) (2) (3) (4) (4) (4) (5) (5) (6) (7) (7) (9) (8) (19) (9) (10) (11) (12) (13)	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remain-ing on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925	unem- ployed remain ing on live register 12, 6 15, 3 13, 4 25, 22, 9 24, 23, 24, 39, 36, 42, 6 36, 42, 6 38, 8	
1930 January February March April May June July August September Doctober November December December J931 January February March	(2) (3) (4) (4) (5) (5) (8) (7) (9) (7) (19) (2) (8) (19) (2) (2) (4) (2) (4) (2) (4) (5) (6) (7) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10	Per cent 8. 5 10. 9	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remaining on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 995	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536	unem- ployed remain ing on live register 12,6 15,5 13,6 25,6 22,2 24,2 39,1 36,1 42,6 36,2 38,8 43,2 48,2	
January February March April May July August September December December January February March April May	(1) (4, 348 (2) (2) (3) (4, 348 (3) (2) (7, 197 (2) (2) (8, 119 (2) (2) (2) (3) (4, 29, 434 (4, 37, 598 (4, 36, 921	Per cent 8. 5 10. 9 13. 5	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remain-ing on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107	unem- ployed registered with em- ployment offices 241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797 340, 718 358, 925	unem- ployed remain ing on live register 12,6 15,5 13,6 22,9 23,2 24,2 24,2 39,1 36,1 42,6 36,2 48,2 41,5 33,4 41,5	
1930 January February March April May Fune July August September October November December Jeanuary February March April May June	(1) 4, 348 (2) 4, 348 (3) (4) 5, 884 (3) (2) 7, 197 (2) 8, 119 (2) 4 29, 434 4 37, 598 4 36, 921 4 42, 523	Per cent 8.5 10.9 13.5	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remaining on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 095 28, 477 25, 206 22, 736	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942	unemployed remain ing on live register 12, 6, 15, 13, 4, 25, 6, 22, 24, 39, 36, 42, 43, 43, 43, 43, 44, 43, 43, 43, 48, 68, 68, 68	
1930 January February March April May June July August September Doctober November December J931 January February March April May June June June June June June June June	(*) 4, 348 (*) 5, 884 (*) 7, 197 (*) 8, 119 (*) 4 29, 434 4 37, 598 4 36, 921 4 42, 523 4 46, 359	Per cent 8.5 10.9 13.5	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213 (2)	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remaining on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 995 28, 477 25, 206 22, 736 20, 869	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179	unemployed remain ing on live register 12, 6, 13, 13, 13, 25, 6, 22, 23, 24, 39, 36, 142, 6, 42, 6, 42, 44, 43, 48, 241, 33, 48, 28, 6, 29, 5	
1930 January	(1) (4, 348 (2) (3) (4, 348 (3) (4) (5) (7, 197 (2) (8, 119 (2) (2) (2) (4, 29, 434 (4, 37, 598 (4, 36, 921 (4, 2, 523 (46, 359 (48, 396 (48, 396 (48, 396	Per cent 8.5 10.9 13.5	7, 786 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265 11, 692 (2) 11, 213 (2)	Per cent  19. 0 18. 9 17. 8 15. 8 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5	unem-ployed remaining on live register  22, 549 22, 549 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 167 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380	unemployed remain ing on live register 12,6 15,6 13,4 25,6 22,7 23,5 24,4 39,3 36,4 42,6 36,5 43,4 41,5 41,5 41,5 41,5 41,5 41,5 41,5 41	
January February March April May June July August September December December J931 January February March April May June June June June June June June June	(3) 4, 348 (2) (2) 5, 884 (3) (2) 7, 197 (2) 8, 119 (2) (2) 4 29, 434 4 37, 598 4 42, 523 4 46, 359 4 48, 396 4 51, 018	Per cent 8.5 10.9 13.5	(10 unidemployee	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5 26. 3	unem-ployed remaining on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012	unem-ployed registered with employment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426	unemployed remain ing on live register 12, 6, 15, 13, 13, 4, 25, 22, 6, 23, 24, 39, 142, 43, 44, 43, 44, 43, 44, 33, 48, 28, 6, 29, 22, 7, 22,	
1930 January February March April May June July August September December 1931 January February March April May June June June June June June June June	(1) 4, 348 (2) 4, 348 (3) (4) 5, 884 (3) (2) 7, 197 (2) 8, 119 (2) 4 29, 434 4 37, 598 4 36, 359 4 46, 359 4 48, 396 4 51, 018 5 51, 018	Per cent 8.5 10.9 13.5	(10 unic employed) Number  7, 786 7, 851 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265  11, 692 (2) 11, 213 (2)  11, 213 (2)	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5  26. 3  24. 9	unem-ployed remaining on live register  22, 549 22, 974 22, 533 19, 829 16, 376 13, 339 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012 29, 340	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 255, 622	unem-ployed remain ing on live register 12, 6, 15, 13, 4, 25, 6, 22, 4, 39, 36, 42, 43, 43, 44, 44, 43, 44, 44, 44, 44, 44	
January	(*) 4, 348 (*) 5, 884 (*) 7, 197 (*) 8, 119 (*) 4 29, 434 4 37, 598 4 36, 921 4 42, 5359 4 48, 396 4 51, 018 4 51, 018 4 51, 935	Per cent 8.5 10.9 13.5	(10 unidemployee	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5  26. 3  24. 9	unem-ployed remaining on live register  22, 549 22, 574 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012 29, 340 32, 078	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 255, 622 266, 027	unem-ployed remain ing on live register	
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January January February March April May June July August September October November December January February March April May June June June June June June June June	(*) 4, 348 (*) 5, 884 (*) 7, 197 (*) 8, 119 (*) 4 29, 434 4 37, 598 4 36, 921 4 42, 5359 4 48, 396 4 51, 018 4 51, 018 4 51, 935	Per cent 8.5 10.9 13.5	(10 unic employed) Number  7, 786 7, 851 7, 851 7, 503 6, 701 5, 239 4, 700 4, 723 5, 897 7, 010 8, 031 9, 396 11, 265  11, 692 (2) 11, 213 (2)  11, 213 (2)	Per cent  19. 0 18. 9 17. 8 15. 8 12. 2 10. 8 13. 4 15. 7 18. 0 21. 4 25. 5  26. 3  24. 9	unem-ployed remaining on live register  22, 549 22, 574 22, 533 19, 829 16, 376 13, 939 11, 997 12, 923 17, 053 20, 363 24, 544 27, 157  28, 596 29, 107 29, 095 28, 477 25, 206 22, 736 20, 869 22, 431 27, 012 29, 340 32, 078	unem- ployed registered with em- ployment offices  241, 974 274, 708 289, 469 271, 225 224, 914 204, 982 193, 687 173, 627 170, 467 165, 154 209, 912 299, 797  340, 718 358, 925 372, 536 351, 679 313, 104 274, 942 255, 179 246, 380 246, 426 255, 622 266, 027	unem-ployed remain ing on live register	

See footnotes at end of table.

#### STATEMENT OF UNEMPLOYMENT IN FOREIGN COUNTRIES-Continued

	Saar Ter- ritory	Sweden  Trade-unionists unemployed		S AT UVA	Switz	erland		Yugo- slavia
u				Un	employ	ment funds		
	Number unem- ployed registered			Wholly unemployed		Partially unemployed		Number of unem- ployed registered
	112	Number	Percent	Number	Percent	Number	Per	
1930								
January	11, 307	45, 636	14. 2	10, 523	4.4	10, 710	4.4	8, 508
February	11, 949	45, 460	13. 2	9, 971	4.1	11, 445	4.7	9, 437
March		42, 278 38, 347	12. 5 11. 1	7,882	2.6 2.1	12, 642 12, 755	4. 2 5. 3	9, 739 12, 052
April		28, 112	8, 3	5, 203 5, 356	2. 1	13, 129	5, 4	8, 704
May		28, 956	8, 1	5, 368	1.7	17, 688	5. 7	6, 991
uly		27, 170	7.8	4, 751	1.9	15, 112	6. 2	7, 236
August		28, 539	8, 1	5, 703	2.3	19, 441	7. 9	6, 111
September		34, 963	9.8	7, 792	2. 5	26, 111	8.3	5, 973
October		43, 927	12, 2	7, 399	3.0	23, 309	9. 4	6, 609
November		57, 070	15, 3	11,666	4.7	25, 793	10. 5	7, 219
December	15, 245	86, 042	22. 9	21, 400	6. 6	33, 483	10, 4	9, 989
1931								
anuary	18, 921	69, 437	19.8	20, 551	8.3	30, 977	12, 5	11, 903
February		66, 923	18. 4	20, 081	7.9	30, 879	12, 2	14, 424
March		72, 944	19.3	18, 991	5, 4	41, 880	12.4	12, 029
April		64, 534	17.5	10, 389	4.0	27, 726	10.6	11, 391
May		49, 807	13. 2	9, 174	3.5	26, 058	9.9	6, 929
uneulv		45, 839 46, 180	12. 1 12. 4	12,577	3.6	34, 266 39, 000	9.7	4, 431
ury			12. 4	12, 200 9, 754	3. 6	33, 346	12, 4	6, 672
September		48, 590 54, 405	13. 7	15, 188	4.0	42, 998	11. 2	7, 466 7, 753
October	24, 685	65, 469	16. 4	18, 000	4.8	47, 200	13, 2	10, 070
November	28, 659	79, 484	19. 9	25, 200	6.6	51, 900	14. 4	10, 349
December		110, 149	27. 2	41, 611	10.1	01, 000	14, 4	10, 348

¹ Sources: League of Nations—Monthly Bulletin of Statistics; International Labor Office—International Labor Review; Canada—Labor Gazette; Great Britain—Ministry of Labor Gazette; Austria—Statistische Nachrichten; Australia—Quarterly Summary of Australian Statistics; Germany—Reichsarbeitsblatt, Reichs Arbeitsmarkt Anzeiger; Switzerland—Wirt. u. Social. Mitteilungen, La Vie Economique; Poland—Wiedemosei Statystyczne; Norway—Statistiske Meddelelser; Netherlands—Maandschrift; Sweden—Sociala Meddelenden; Denmark—Statistiske Efterretninger; Finland—Bank of Finland Monthly Bulletin; France—Bulletin du Marché du Travail; Hungary—Magyar Statistikai Szemle; Belgium—Revue du Travail; New Zealand—Monthly Abstract of Statistics; U. S. Department of Commerce—Commerce Reports; and U. S. Consular Reports.

Not reported.
Provisional figure <sup>4</sup> New series of statistics showing unemployed registered by the employment exchanges. Includes not only workers wholly unemployed but also those intermittently employed.

<sup>5</sup> Strike ended. Provisional figure.

# Recreation Centers for the Unemployed in Montreal

HE Montreal Council of Social Agencies has completed plans for I the establishment of recreation centers for unemployed workers in that city. Among the activities available will be checker playing, volley ball, basketball, hockey, boxing, and swimming. Some of the centers will be open in the evening and others in the morning or afternoon. Instead of remaining indoors at home all day or walking the streets the jobless men, it is hoped, will be able to forget their troubles to some extent while they are playing and taking physical exercise.

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12, 622 15, 588 13, 045 13, 412 25, 096 22, 960 23, 236 24, 209 39, 110 36, 147 12, 689

8, 804 3, 270 1, 519 3.4849, 250 2, 708 2, 969 8, 800

36, 212

3, 917 9, 393

<sup>&</sup>lt;sup>1</sup> Canadian Congress Journal, Ottawa, January, 1932, p. 20.

### English Studies of Unemployed and of Persons Insured Against Unemployment

THE English Government has recently published the results of two studies made by the sample method, one dealing with persons insured against unemployment at the beginning of July, 1930, and the other with persons registered as unemployed on February 2, 1931. The Ministry of Labor Gazette for January, 1932, contains a summary of these studies, from which the following data are taken.

# Persons Insured, July, 1930

The study included 120,000 persons insured under the unemployment insurance acts, of whom 86,740 were males and 33,260 were females. The number of insured workers at that date was 12,000,000, so that the sample represents 1 per cent of the total. The facts on record made possible analyses as to age, industry, contributions made, and benefits drawn, but not as to marital state, dependents, or

personal qualifications and disabilities.

For the group as a whole, 55.9 per cent of the males and 80.5 per cent of the females were under 35 years, but the age distribution varied with different industries. In general, the heavy industries included a larger proportion of middle-aged men than the light trades, while the industries which tend to employ large numbers of the unskilled show heavier proportions of the older men. The records showed for each person the industry in which he was employed when he entered insurance, as well as that in which he was when the sample was taken, and from these facts it was possible to draw some conclusions as to the mobility of labor.

For all industries combined 64.2 per cent of the males were in the same industry classification in July, 1930, as at their entry into insurance, and 35.8 per cent had had a change of classification. A small part—not exceeding 2.5 per cent—of this change may have been due to a change in the basis of industrial classification which took place in July, 1923; allowing for this, it would appear that about one-third of the men and youths insured in July, 1930, had moved at least once from one industry to another since their entry into insurance. The average period covered by the record was seven years for men and 5.4 years for women. In some industries the transference is much more frequent than in others. Speaking generally, there is less transference among females than among males.

Contributions and Benefits

Over one-third (35.4 per cent) of the males and nearly one-half (48.4 per cent) of the females had never drawn unemployment benefit between November, 1920, and December, 1930. This is partly a matter of age, as the risk of unemployment increases with years. "Among men aged 60 to 64 the rate of unemployment is 50 per cent higher than at ages 40 to 44." Unemployment, while frequent, seemed to be in the majority of cases either intermittent or of short duration.

More or less continuous unemployment is confined to a very small section of the insured population, which can not include more than about 100,000 men and 3,000 women. This group represents the maximum size of the "standing army" of the unemployed. The number of those who have had no unemployment is at least 30 times as large. Between these two extremes there is a group, about one and a half times as numerous as the other two combined, and including about 5,500,000 men and 1,700,000 women, among whom employment and unemployment are intermittent. In this group the degree of unemployment is not uniform. Among at least half the group unemployment is almost negligible, and it becomes serious among only about 10 per cent.

The proportion of those among whom unemployment had been severe varied widely in the different industries. This is indicated in the following table, which shows, for the leading industries, the average number of days' benefit drawn for each 100 contributions paid by those of the sample who were in the various industry classifications in July, 1930:

Table 1.—RELATION BETWEEN CONTRIBUTIONS PAID AND BENEFITS DRAWN UNDER UNEMPLOYMENT INSURANCE IN GREAT BRITAIN

Principal industries and sex	Days' benefit per 100 contri- butions	Principal industries and sex	Days' benefit per 100 contri- butions
Males		Females	
Ship building and repairing Public works contracting Iron and steel Dock, harbor, etc., service Coal mining Engineering Cotton Building Motor vehicles, etc. Woolen and worsted Clothing Food, drink, and tobacco Distributive trades. Paper Printing, publishing, etc.	194 144 126 100 70 69 68 59 50 37 31 31 29	Cotton	85 50 52 43 31 25 21 20 18
All industries	59	All industries	35

The act of 1920 had laid down the rule, afterward abrogated, that not more than one week's benefit would be allowed for each six contributions paid. Applying this rule to an industry, each 100 contributions paid in might be said to represent a liability for benefit for 16% weeks, or, roughly, 116 days. (B. L. S. Bull. No. 544, p. 277.) The industries included in this table are those in which unemployment is heaviest, and it will be noticed that for men in three cases the average period through which benefits were paid per 100 contributions exceeded that established by the above-mentioned rule, while for women the full period was not reached in any case. Taking this group of industries as a whole, neither for men nor for women were benefits paid throughout the full period which the 100 contributions would have justified.

#### Transitional and Standard Benefit

Of the workers included in the sample, 32,384 males and 11,238 females claimed unemployment benefit in 1930, and of these 3,754 males (12 per cent) and 1,182 females (10.5 per cent) were qualified for the transitional benefit only on the basis of their contribution record as it stood in the last quarter of the year.

Age had a considerable influence on the relative proportions entitled to standard and transitional benefit, respectively, and on the rate of change in personnel. Thus, in the age group 18 to 20, only 8.7 per cent of the males and 6.6 per cent of the females with claims current at December 17, 1930, were qualified for transitional benefit only, while in the age group 55 to 64, the proportions had risen to 28.9 and 14.5 per cent, respectively.

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The proportion of transitional to standard benefit claimants in some of the more important industries is shown in the following table:

TABLE 2.—PER CENT OF CLAIMANTS ON TRANSITIONAL BENEFIT UNDER UNEM.
PLOYMENT INSURANCE IN GREAT BRITAIN

Principal industries	Per cent on tran- sitional benefit	Principal industries	Per cent on tran- sitional benefit
Males		Females	
Public works contracting Coal mining Distributive Shipbuilding and ship repairing Iron and steel Motor vehicles Building Engineering Cotton Dock and harbor service Woolen and worsted Paper	33. 9 26. 6 21. 7 19. 0 14. 9 14. 0 13. 1 12. 2 9. 7 8. 3 8. 1	Distributive Cotton Printing, publishing, and bookbinding Food, drink, and tobacco Pottery Woolen and worsted Clothing Engineering	7.8
All industries	17. 4	All industries	12.7

# Persons on Unemployment Register, February, 1931

The second study was based on a sample aggregating one-half of 1 per cent of all persons aged 18 and over, employed or unemployed, on the registers of the employment exchanges of Great Britain on February 2, 1931. In regard to age, and to the connection between age and unemployment, the study showed little that was new. Among men the increase in unemployment had affected all age groups in much the same degree; among women it was less apparent among those under 25 than in the older age groups.

#### Employability

Over 70 per cent of those interviewed were reported to be of good physique, while over 80 per cent were in good health, and a similar per cent had no physical defects.

The definitions of the various categories of employability were different from those used in the previous investigations; each person interviewed was judged in relation to his suitability for submission to a local vacancy without exceptional features in his own occupation. Judged by the new standards, 75 per cent of the men and 80 per cent of the women were considered to be suitable on all grounds for submission to such a vacancy; 16.5 per cent of the men and 13.3 per cent of the women came short of the standard in personal qualifications (age, physical condition, etc.); 5 per cent of the men and 4 per cent of the women were considered to have adequate personal qualifications, but their industrial experience was such as to make their engagement doubtful; and 3.4 per cent of the men and 2.8 per cent of the women were considered to be unsuitable on both grounds (industrial experience and personal qualifications).

Those on transitional benefit had distinctly lower employment qualifications than those on standard benefit. For example, among men, 82 per cent of those on standard benefit were placed in category A (those suitable on all grounds), but only 52 per cent of those on transitional benefit. This was in part due to the higher average age of those on transitional benefit.

Education, Marital Condition, and Dependents

The great majority had attended elementary schools only, and had left them early. "Nearly 90 per cent of the men and 80 per cent of the women under 30 years of age started work before reaching 15." Slightly over one-fourth (26 per cent) of the men and 7 per cent of the women claimed to have been apprenticed to a trade; the proportions were higher among those on standard than among those on transitional benefit. The proportion of married men was higher than at any previous investigation, and the proportion of married women claimants to benefit was nearly double that found in the investigation of April, 1927. Of every 100 men whose claims to benefit had been approved, 54 had dependents, consisting of 50 adults and 82 children. Among those with dependent children the average number of children was 2.2. Only 3 per cent of the women with authorized claims had dependents.

#### Employment and Unemployment Record

As to employment record, the following was found:

In the year ended January, 1931, a year of industrial depression, over 6 per cent of the men on standard benefit at February 2, 1931, had paid 50 or more weekly contributions, and about 56 per cent had paid 30 or more; only 4 per cent had paid no contributions. Among the men on transitional benefit, about 46 per cent had paid no contributions in the year. The figures for women showed a slightly less favorable record. \* \* \*

For the nine years, July, 1921, to June, 1930, taken as a whole, 18 per cent of the men on standard benefit at February 2, 1931, had paid the maximum number of contributions throughout the whole period, and over 55 per cent had paid nearly 80 per cent of the maximum. The record for those on transitional benefit fell much below this standard. For women on standard benefit the record was similar to that of the men, but women on transitional benefit had a better record than the men in the same class. \* \*

Among men 30 per cent of those on standard benefit and 5.5 per cent of those on transitional benefit had been unemployed for not more than 12 weeks in the year ended January, 1931; 30 per cent of the men on standard benefit and 6 per cent of those on transitional benefit had been unemployed for 12 to 24 weeks; while less than 2 per cent of those on standard benefit and 20 per cent of those on transitional benefit were unemployed the whole year.

On the average the men on standard benefit had been continuously unemployed for 63 days as compared with 173 days for those on transitional benefit. The last spell of continuous unemployment extended to not more than 4 weeks among 41.7 per cent of the men on standard benefit and 11.2 per cent of those on transitional benefit; and it was not more than 12 weeks in the case of 69 per cent of those on standard benefit and 28 per cent of those on transitional benefit. The figures for women were similar.

If the 7-year period ended January, 1931, is taken as a whole, nearly 36 per cent of the men and 43 per cent of the women on standard benefit, and 6 per cent of the men and 16 per cent of the women on transitional benefit at February 2d had

drawn benefit for less than 10 per cent of the total period.

# Movement of English Workers from Uninsured to Insured Occupations

THE question has often been raised as to the extent to which workers in Great Britain were passing from the uninsured to the insured occupations, and to throw some light on the movement the Ministry of Labor recently made a special analysis of the new entrants into unemployment insurance during the 12 months ending in April, 1931. Some particulars of this study are given in the Ministry of

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Labor Gazette for December, 1931 (p. 456). During the period covered the total number of new entrants was 755,130, of whom 178,819 were adults and 576,311 were juveniles. The following description is given of the data on which the analysis was based:

As soon as a worker aged 16 to 64 has obtained employment in an insured trade, or reaches the age of 16 while in such employment, he is required to make application for an unemployment book, and at the same time, under the normal procedure, a special inquiry form is completed at a local office of the Ministry of Labor in respect of every applicant for a book, with the exception of juveniles who apply within two months of reaching 16 years of age. Particulars are entered on the form respecting the applicant's previous employment record, his age, and the insurable employment in respect of which an unemployment book is being issued. An unemployment book is not issued unless insured work has been obtained. The following analysis has been derived from an examination of those inquiry forms which indicated previous employment in uninsured occupations. These figures, it should be observed, relate solely to persons entering trades, and make no allowance for the movement from insured to uninsured occupations, e. g., from hotel or restaurant work to private domestic service.

The inquiry dealt with 97,185 persons entering insured trades during the period covered who had had employment in uninsured occupations previous to entering insurance. This was 12.9 per cent of the total number of new entrants during the year. The following table shows, by number and per cent, the previous occupational distribution of the entrants:

PREVIOUS OCCUPATIONAL DISTRIBUTION OF NEW ENTRANTS INTO INSURED TRADES IN GREAT BRITIAN

Previous record	Number	Per cent of those with former un- insured em- ployment	Per cent of total new entrants
Agriculture.  Domestic service.  Work on own account.	25, 041 33, 049 20, 251	25. 8 34. 0 20. 8	3.3 4.4 2.7
From abroad	5, 787 4, 635 4, 311 2, 830	6. 0 4. 8 4. 4 2. 9	.8 .6 .6
Irish immigrants	1, 281	1.3	i
Total	97, 185	100.0	12.9

Nearly 50 per cent of the adult new entrants had had previous uninsured employment, but among juveniles the percentage was only 1.8. Over 22,000, or 26 per cent of the adults who had had uninsured employment, had been engaged in agriculture. Over 26,000, or 31 per cent, had been in domestic service, and nearly 20,000 or 23 per cent, had been working on their own account. Among the juveniles with previous uninsured employment, 62 per cent had been engaged in domestic service, and 26.9 per cent in agriculture. The analysis did not distinguish males from females, but no doubt most of those from domestic service were females and most of those from agriculture were males.

Incidentally it is mentioned that some examination was made of the group, numbering about 92,000, who had entered insurance for the first time after reaching 18 years of age and who had had no previous uninsured employment. Of these, about 80 per cent were women, of whom about 75 per cent had been engaged in home duties, a few had been receiving education, and the rest had been unoccupied. Among the men in this class about 25 per cent had been receiving education, about 10 per cent had been working for parents, and the others had been unoccupied.

A study of the occupations which the new entrants who had previously worked entered during the year showed that nearly 40 per cent found employment in the distributive trades, and over 15 per cent in building and public works contracting. The distributive trades have suffered relatively less than many other industries from the depression, and an increasing proportion of the insured population is found in them. Many of those entering them came from domestic service, or from working on their own account.

It is well known that there is a considerable movement into this industry of girls from domestic service; while the number of persons entering from work on their own account is probably influenced by the difficulty of maintaining small independent businesses in the face of trade depression and the increasing competition of large stores. As might be expected a large proportion of the entrants from domestic service found employment in hotel, etc., service.

Over 30 per cent (8,067) of the men from agriculture entered the building and public works contracting industries. \* \* \*

Nearly 50 per cent of the entrants from uninsured occupations were under 25 years of age, and the average number at each year of age in the 16-24 age group was over three times the corresponding number in later age groups.

Of those who had been employed in domestic service and agriculture the percentages under 25 years of age were 69.7 and 54.8, respectively. The number of adult entrants from these two occupations decreased steadily with advancing age, whereas the numbers who had been working on their own account were fairly evenly distributed between ages 18 and 54.

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# **INSURANCE AND BENEFIT PLANS**

# Wisconsin Unemployment Insurance Law

ON JANUARY 28, 1932, the first unemployment insurance law adopted by any State in the Union was approved by the Governor of Wisconsin, and constitutes chapter 20, Wisconsin Special Session

Laws of 1931.

The Wisconsin Legislature, by the enactment of the law, intended to make certain that by July 1, 1933, a majority of the employees working for industrial companies in the State would have some adequate system of unemployment compensation. Before June 1, 1933, therefore, it is incumbent upon the employers of at least 175,000 employees to establish voluntarily some unemployment insurance plan which meets the standards prescribed by the act; otherwise the act will automatically become compulsory on July 1, 1933. Proposed voluntary plans may be submitted to the Wisconsin Industrial Commission for its written approval.

By June 15, 1933, the industrial commission must ascertain whether a sufficient number of employers have undertaken voluntary plans, and file its findings with the secretary of state. Public notice of the results must be given in the official State paper by the secretary of state. In the event the compulsory plan does not become operative, the industrial commission continues a supervision over the voluntary plans, and must keep itself informed of the operations of all such plans of unemployment insurance established in the State and publish

pertinent statistics regarding the plans.

In order to assist in carrying out the purposes of the act, it provides that any county or municipality may, subject to the approval by the industrial commission, establish and maintain local free-employment offices, and the industrial commission may also establish such offices on its own responsibility.

An appropriation of \$25,000 is made available until June 30, 1933.

Briefly the act provides the following:

1. It recognizes the economic loss resulting from unemployment and endeavors to provide a constructive solution of the problem.

2. It covers all employers employing 10 or more persons for four or more months during the preceding calendar year. The following are specifically excluded: Farm laborers, domestic servants, public officers, school teachers, interstate railroad employees, or persons engaged in governmental unemployment relief projects, or anyone

who is unable or unwilling to work normal full time.

3. Contributions to the unemployment reserve fund are made by the employer at the rate, for the first two years of contribution, of 2 per cent of his annual pay roll (not including salaries of employees receiving more than \$1,500 per year or \$300 or more per month). Thereafter, whenever a reserve has been built up amounting to \$55 per employee, the rate of contribution is reduced to 1 per cent, and when and during the period that the reserve per employee amounts to \$75 contributions

cease. Whenever the reserve falls below \$75 contributions begin again. In addition, the employer is obliged to contribute to the administration fund at the rate of two-tenths of 1 per cent of his annual pay roll. Any agreement between employer and employee by which the latter agrees to pay any part of the regular contribution is void. However, employees may contribute voluntarily to the fund in order to obtain higher benefits than those established by the act.

4. Benefits for total unemployment become payable after a waiting period of two weeks and are at the rate of \$10 a week, or 50 per cent of the average weekly wage, whichever is lower, unless the wage is less than \$5, when a benefit of \$5 is paid. For partial unemployment the benefit is the difference between the employee's actual wages and the weekly benefit to which he would be entitled if totally unemployed. An additional \$1 per week is provided in the event the employee attends a vocational or other school during the period of his unemployment. The maximum period of benefit in any one calendar year is limited to 10 weeks.

No benefits are to be paid if the employee has lost his employment because of misconduct or has quit voluntarily or because of a trade dispute, if the place of business is destroyed, if he earned \$1,500 or more during the preceding 12 months, or for several other reasons. Benefits cease in case of refusal to accept suitable employment.

5. The act is administered by the State industrial commission.

6. For violations of the act—making false statements, deducting contributions from an employee's wages, refusing to pay contributions, failing to testify or produce books, etc.—a penalty of \$25 to \$100, or imprisonment for a maximum of 30 days, or both, is provided.

Because this act is the first which any State in the Union has enacted dealing with the problem of unemployment insurance, and because of its widespread interest it has been deemed advisable to reproduce the act in full.

CHAPTER 20

Section 1. Legislative intent.—(1) The legislature intends through this act to make it certain that by July 1, 1933, at least a majority of the employees of this State will enjoy the protection of fair and adequate systems of unemployment compensation. The largest organization of employers in the State having declared it to be the intention of its members voluntarily to establish unemployment fund systems, it is the intent of the legislature to give employers a fair opportunity to bring about the purposes of this act without legal compulsion. If by June 1, 1933, the employers of not less than 175,000 employees have voluntarily established plans which comply with the standards prescribed in section 108.15 of this act, then the compulsory system provided for in section 2 shall not take effect; otherwise, it shall take effect July 1, 1933. Should this provision for any reason be held invalid it is the intent of the legislature that the compulsory plan shall take effect July 1, 1933.

Chapter 108.—Unemployment reserves and compensation

Section 108.01. Declaration of public policy.—As a guide to the interpretation and application of this chapter the public policy of this State is declared as follows:

Sec. 2. A new chapter and a new section are added to the statutes to read:

(1) Unemployment in Wisconsin has become an urgent public problem, gravely affecting the health, morals, and welfare of the people of this State. The burden of irregular employment now falls directly and with crushing force on the unemployed worker and his family, and results also in an excessive drain on agencies for private charity and for public relief. The decreased and irregular purchasing power of wage earners in turn vitally affects the livelihood of farmers,

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merchants, and manufacturers, results in a decreased demand for their products, and thus tends partially to paralyze the economic life of the entire State. In good times and in bad times unemployment is a heavy social cost, now paid mainly by wage earners. Industrial and business units in Wisconsin should pay at least a part of this social cost caused by their own irregular operations. somewhat steadier work and wages to its own employees, a company can reasonably be required to build up a limited reserve for unemployment, and out of this to pay unemployment benefits to its workers, based on their wages and lengths of service.

(2) The economic burdens resulting from unemployment should not only be shared more fairly, but should also be decreased and prevented as far as possible. A sound system of unemployment reserves, contributions, and benefits should induce and reward steady operations by each employer, since he is in a better position than any other agency to share in and to reduce the social costs of his own irregular employment. Employers and employees throughout the State should cooperate, in advisory committees under Government supervision, to promote and encourage the steadiest possible employment. A more adequate system of free public employment offices should be provided, at the expense of employers, to place workers more efficiently and to shorten the periods between jobs. Education and retraining of workers during their unemployment should be Governmental construction providing emergency relief through encouraged. work and wages should be stimulated.

(3) A gradual and constructive solution of the unemployment problem along

these lines has become an imperative public need.

Sec. 108.02. Definitions.—As used in this chapter:

"Commission" shall mean the industrial commission.

(a) "Commission" shall mean the industrial commission.
(b) "Workmen's compensation act" shall mean sections 102.01 to 102.35.
(c) "Employee," except where the context clearly shows otherwise, shall mean any person who is employed by an employer and in an employment subject to this chapter, or who has been so employed within the last six months: Provided, That an independent contractor shall be deemed an "employer," and that all persons employed by subcontractors under him shall be deemed his "employees"

for the purposes of this chapter.

(d) "Employer," except where the context clearly shows otherwise, shall mean any person, partnership, association, corporation (or legal representative of a deceased person, or a receiver or trustee of a person, partnership, association, or corporation), including this State and any municipal corporation or other political subdivision thereof, who or whose predecessor in interest has for four months or more within the preceding calendar year employed 10 or more persons in employments subject to this chapter. There shall be included in such calculation all persons thus employed by the employer throughout the entire State, and all of the several places of employment maintained within Wisconsin by the employer shall be treated as a single "employer" for the purposes of this chapter: Provided, moreover, That where any employer, either directly or through a holding company or otherwise, has a majority control or ownership of otherwise separate business enterprises employing persons in Wisconsin, all such enterprises shall be treated as a single "employer" for the purposes of this chapter.

(e) An "employment," except where the context shows otherwise, shall mean any employment, during any week, in which all or the greater part of the person's work is performed within Wisconsin, under any contract of hire, express or implied, oral or written, including all contracts entered into by helpers and assistants of employees, whether paid by employer or employee, if employed with the knowledge actual or constructive of the employer; except that for the purposes of this

chapter an "employment" shall not include:

1. Employment as a farm laborer;

2. Employment in the personal or domestic service of an employer at his home; 3. Employment on a governmental unemployment relief project, approved as such by the commission;

4. Employment as an elected or appointed public school,
5. Employment by a governmental unit on an annual salary basis;
6. Employment as an elected or appointed public school, college, or 6. Employment as a teacher in a private or public school, college, or university for the regular term for which such school, college, or university is in session;

Employment of a person who is unable or unwilling to work normal full time and who, before accepting a part-time job, has registered at his district public employment office as a "part-time worker," in such written form as the commission may prescribe: *Provided*, *however*, That for the purposes of this chapter

no person shall be treated as a "part-time worker" who customarily works half or more than half the full-time hours per week which prevail in such establishment for full-time employees.

8. Employment by railroads engaged in interstate transportation and employ-

ment in logging operations.

(f) An employee's "weeks of employment" by an employer shall mean all those weeks during each of which the employee has performed any services at all for the employer.

(g) "Benefits" shall mean the money allowance payable to an employee as compensation for his wage losses due to unemployment as provided in this

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(h) "Wages" shall mean what is customarily meant by the term, except that it shall include bonuses and the reasonable value of board, rent, housing, lodging,

or similar advantage received from the employer.

(i) An employer's "full-time hours per week" shall be determined for each general class of his employees (classifying together all those usually employed on substantially the same schedule of weekly hours). The commission shall calculate an employer's full-time hours per week, applicable to all his employees of the given class, by averaging the weekly hours worked by the majority of such employees for each week during the preceding calendar year in which such prevailing hours were 40 or more: Provided, That, in cases where it finds that the above method can not reasonably and fairly be applied, the commission may adopt such other comparable method or methods of determining an employer's full-time hours per week as it deems reasonable and suitable under this chapter.

(j) An employee's "average weekly wage" shall mean the weekly earnings such employee would average from the particular employer if employed that number of full-time hours per week of such employer which is applicable to such employee. Accordingly—each employee's "average weekly wage" shall be calculated by multiplying such applicable full-time hours per week by the employee's average earnings per hour from such employer. Each employee's earnings per hour (averaged for 100 or more hours of employment, so far as possible) shall for this purpose be calculated at such times and in such manner and in accordance with such suitable rules as the commission may prescribe with a view to determining

benefits under this chapter.

(k) "Fund" shall mean the unemployment reserve fund established in section

108.16.

(l) "Employer's account" shall mean the separate unemployment reserve

account of an employer with the above fund.

(m) "Reserve per employee" shall refer to the status of an employer's account at the beginning of a calendar month. It shall be calculated by dividing the net amount such employer's account then has (or would have if all contributions due under this chapter had peen paid) by the maximum number of employees subject to this chapter employed by such employer in any week during the preceding

(n) "Administration fund" shall mean the fund established in section 108.20. Sec. 108.03. Payment of benefits.—(1) Benefits shall be paid by the commission to each unemployed employee from his employer's account in the fund under the conditions and in the amounts stated in this chapter; except that employers exempted under subsection (2) of section 108.15 shall pay benefits directly to their unemployed employees under the conditions and in the amounts stated in

the plan approved by the commission as the basis for the exemption.

(2) No benefits shall become payable from any employer's account, nor shall any employer's benefit liability begin to accrue under section 108.06, until one year after he has begun to make the regular and continuing contributions required of him under this chapter, except as otherwise provided in subsection (5) of section 108.15 and subsection (8) of section 108.16: Provided, That at the end of such year period each employer's benefit liability shall begin to accrue and benefits shall accordingly become payable from his account.

(3) The commission shall determine or approve the time and method of pay-

ment of benefits.

Sec. 108.04. Eligibility for benefits.—(1) No employees shall be deemed eligible for benefits for partial or total unemployment unless he gives the notification of such unemployment required under subsection (1) of section 108.08, or unless such notification is waived by the commission in accordance with such section.

(2) No employee shall be deemed eligible for benefits on account of either partial or total unemployment during any calendar week unless such employee was physically able to work and available for work whenever with due notice called on by his employer to report for work. Nor shall any employee be deemed eligible for benefits for total unemployment for any calendar week in which he has suitable employment, as defined in subsection (6) of this section; Provided. That nothing in this section shall render an employee ineligible for total unemployment benefits for any calendar week on the ground that such employee is employed on a governmental unemployment relief project under section 108.25.

(3) An employee shall be deemed partially unemployed in any calendar week, and shall at once be eligible for benefits for such partial unemployment, whenever his week's wages are less than the amount of weekly benefit to which he would be

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entitled under this chapter if totally unemployed.

(4) An employee shall be deemed totally unemployed in any calendar week when he performs no services whatsoever for his current employer during such An employee thus unemployed shall be eligible for benefits for total unemployment for each week of total unemployment occurring subsequent to a waiting period of two such weeks. No benefit shall be or become payable for this required waiting period, but not more than two such weeks of waiting period per employer shall be required of any employee in any 12 months in order to establish his eligibility for total unemployment benefits under this section. The commission may approve in an approved voluntary unemployment benefit plan, such longer or shorter waiting period as will comply with the requirements of subsection (2) of section 108.15.

(5) An employee shall not be deemed eligible for any benefits for total unemployment based on his past weeks of employment, and no such benefits shall be

payable to the employee under any of the following conditions:

(a) If he has lost his employment through misconduct;

(b) If he has left his employment voluntarily without good cause attributable

to the employer;

(c) During any period for which he has left and is out of employment because of a trade dispute still in active progress in the establishment in which he was employed;

(d) For any period during which he is out of employment because of an act of

God affecting his place of employment;

(e) If he has received in wages \$1,500 or more during the 12 months preceding

the date on which he became totally unemployed;

(f) If he is ordinarily self-employed, but has been temporarily (for not more than five months) employed in an employment subject to this chapter and can, at the termination of such temporary employment, reasonably return to his selfemployment;

(g) If he attended a school, college, or university in the last preceding school term, and has been employed by his employer only during the customary summer

vacation of schools, colleges, and universities.

(6) A claimant shall no longer be eligible for total unemployment benefits and the liability of his past employers to pay him such benefits based on his past employment shall cease for any period after he has without good cause refused to accept suitable employment when offered to him, or has failed to apply for suitable employment when notified by the district public employment office. Suitable employment shall mean either employment in his usual employment or other employment for which he is reasonably fitted, regardless of whether it is subject to this chapter: *Provided*, Such employment is in the vicinity of his residence or last employment, and gives him wages at least equal to his weekly benefit for total unemployment or provides him work for at least half the number of hours normally worked as full time in such occupation or establishment: And provided, further, That whenever in any specific case the commission finds that it is impracticable to apply any of the foregoing standards, the commission may apply any standard reasonably calculated to determine what is suitable employment.

(7) Nothing in this section shall require an employee to accept employment; nor shall any employee forfeit his right to benefits by refusing to accept employ-

ment under either or both of the following conditions:

(a) In a situation vacant in consequence of a stoppage of work due to a trade

dispute

(b) If the wages, hours and conditions offered be not those prevailing for similar work in the locality or are such as tend to depress wages and working con-

ditions. (8) No employee shall be deemed eligible to receive benefits under this chapter on account of any period of partial or total unemployment unless such employee has been a resident of Wisconsin for the 2 years preceding the beginning of such period of unemployment or has been gainfully employed in the State for 40 weeks within such 2-year period: *Provided*, That an employee's ineligibility under this subsection shall modify his employer's benefit liability only as specifically provided in subsection (5) of section 108.06.

Sec. 108.05. Amount of benefits.—(1) Each eligible employee shall be paid benefits for total unemployment at a rate of \$10 a week or 50 per cent of his average weekly wage, whichever is lower; except that when 50 per cent of such wage is less than \$5 a benefit of \$5 a week shall be paid.

(2) The benefit payable for partial unemployment in any week shall be the difference between the eligible employee's actual wages for the week and the

weekly benefit to which he would be entitled if totally unemployed.

(3) Benefits shall be paid to each employee for the calendar weeks during which he is totally or partially unemployed and eligible for benefits; but no employee shall ever receive in any calendar year more than 10 weeks of benefit for total unemployment, nor more than an equivalent total amount of benefits either for partial unemployment or for partial and total unemployment combined.

(4) The amount of benefits payable to any eligible employee shall be limited also by the benefit liability of his employer's account, as provided in sections

108.06 and 108.07.

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o er Sec. 108.06. Benefit liability of the employer's account.—(1) An employer's account shall be liable to pay benefits to an employee in the ratio of one week of total unemployment benefit (or an equivalent amount of partial unemployment benefit) to each four weeks of employment of such employee by such employer within the 52 weeks preceding the date on which such employee last performed services for such employer. But no liability for the payment of benefits to an employee shall accrue unless the employee has been employed more than two weeks by the particular employer within such preceding year, or, in the case of an employee employed on a fixed monthly salary, unless the employee has been employed more than one month by the particular employer within such preceding year.

within such preceding year.

(2) In no case shall an employer's account remain or be liable to pay benefits to an employee for any unemployment occurring more than six months after the

date on which such employee last performed services for such employer.

(3) No employer's account shall at any time be liable to pay benefits beyond the current resources his account has, or would have if all contributions due

under this chapter had been paid.

(4) The liability of any employer's account to pay benefits, for weeks of partial or total unemployment occurring within or mainly within any calendar month, may be reduced, depending on the adequacy of such account at the beginning of such month. Such adequacy shall be determined at the beginning of each month, on the basis of the net "reserve per employee" which the employer's account then has, or would have if all contributions due for payment under this chapter had been paid. (Whenever during any month the maximum benefit payable from an employer's account for any week of total unemployment is reduced hereunder, this reduced maximum shall also be observed in calculating the benefits payable from that account for partial unemployment during that month.) In each calendar month an employer's account shall be liable to pay the benefits otherwise due his eligible employees for their weeks of unemployment occurring within such month only in accordance with the following schedule:

(a) When its reserve at the beginning of the month amounts to \$50 or more per employee, the account shall be liable for and shall pay in full all valid benefit

claims for unemployment during the month;

(b) When such reserve amounts to over \$45 but less than \$50, all such valid benefit claims shall be paid, except that no eligible claimant shall receive for total unemployment a benefit of more than \$9 per week;

c) When such reserve amounts to over \$40 but less than \$45, no claimant

shall receive a benefit of more than \$8 per week;

(d) For each further periodic drop of \$5 in the reserve per employee, there shall be a corresponding further drop of \$1 in the maximum benefit per week

payable to any claimant for total unemployment.

(5) Any employee who has neither been a resident of Wisconsin for the past 2 years nor been gainfully employed in the State for 40 weeks within such 2-year period, and who is, therefore, under subsection (8) of section 108.04 ineligible to receive benefits under this chapter, shall be known as "a nonqualified employee." Whenever such a nonqualified employee loses his employment, under conditions other than those enumerated in subsection (5) of section 108.04, his employer's account shall be at once liable to pay in lieu of benefits to such person a lump sum amount to the commission. This payment shall be made at the rate of \$5 for each 4 weeks of employment of such person by such employer

during the period of employment just ended; but not more than \$5 shall be so pavable for each \$5 reserve per employee in the employer's account at the beginning of the current calendar month. The employer's liability under this subsection shall be reported by him and shall be determined in amount in accordance with suitable rules to be prescribed by the commission. The amount found to be due shall in each such case be paid over from the employer's account into the administration fund established by section 108.20.

SEC. 108.07. Successive employer's liability.—(1) When an employee is employed by more than one employer within any 12-month period, the payment of benefits due such employee for total unemployment shall be made from the successive employer's accounts in inverse order to such successive employments. Until the last employer liable shall have met or been unable further to meet his benefit liability to an eligible employee no previous employer shall be due to

pay benefits to such employee.

(2) When an eligible employee becomes employed in an employment or by an employer not subject to this chapter, such employment, except as provided in section 108.25, shall postpone but not terminate the liability of any former employer to pay benefits to such employee: Provided, however, That if the employee fails to return to regular work offered him in his former employment by the written request of his former employer, made in good faith and not inconsistent with subsection (7) of section 108.04, such employee's right to benefits

from such former employer shall be extinguished.

SEC. 108.08. Notice of unemployment.—(1) Any claimant of benefits must give notice of his unemployment at the public employment office for the district in which he is or was last employed, within such time and in accordance with such rules as the commission may prescribe. Thereafter he shall give notice of the continuance of his unemployment as frequently and in such manner as the commission may prescribe. But the notification prescribed under this subsection may, as to any case or class of cases, be waived by the commission for good cause (including administrative feasibility), provided the commission finds that no party in interest will be prejudiced by such waiver.

(2) The commission may require from any or each employer notification of the partial or total unemployment of his employees, within such time, in such

form, and in accordance with such rules as the commission may prescribe. Sec. 108.09. Establishment of claims.—(1) Claims for benefits shall be filed with the superintendent of the public employment office for the district in which the claimant is or was last employed, or with a deputy of the commission designated for the purpose. Claims shall be filed within such time and in such manner

as the rules of the commission may prescribe.

(2) If a claim appears to the superintendent or deputy invalid he shall reject the claim; if it appears valid he shall state the amount of benefits apparently payable to the claimant while eligible. In either case he shall notify the claimant in writing, giving his reasons. If the claimant is dissatisfied he may, within a time limit after notification to be set by the commission, have recourse to the method set up in section 108.10 for settling disputed claims.

(3) If a claim appears to the superintendent or deputy valid he shall notify the liable employer in writing of the amount of benefits apparently payable there-If the employer does not contest the claim, within a time limit after notification to be set by the commission, the amount of benefits stated by the superintendent or deputy shall, subject to the limitations set up in this chapter, become payable to the claimant from such employer's account and shall be so paid by the commission. If the employer wishes to contest the claim, he may within a time limit to be set by the commission, have recourse to the method set up in section 108.10 for settling disputed claims.

SEC. 108.10. Method of settling disputed claims.—(1) The manner in which disputed claims shall be presented, the reports thereon required from employers, and the conduct of hearings shall be governed by rules and regulations to be

adopted by the industrial commission.

(2) Disputed claims, whether involving employers exempted under section 108.15 or those contributing to the fund, shall be decided in the first instance by the superintendent of the district public employment office or by a deputy of the

commission designated for the purpose. (3) Within a time limit after notification to be set by the commission either the employer or employee may take an appeal from any decision of the superintendent or deputy, to an appeal board to be appointed in each employment office district by the industrial commission. Such district appeal board shall consist of one employer or representative of employers, one employee or representative of employees, and one person who is not an employer, employee or representative of either.

(4) Decisions of a district appeal board shall be reviewable by the commission or its representative upon appeal of either party within a time limit and in accordance with other rules and regulations to be laid down by the commission. The commission may authorize a commissioner or an examiner to hear such cases and

to make decisions under rules to be adopted by the commission.

(5) Either party, if dissatisfied with the decision of such commissioner or examiner, may petition the industrial commission to review it as a commission. Such petition shall be in writing specifying in detail the particular errors alleged. If no such petition is filed within 10 days from the date when a copy of the decision of the commissioner or examiner was mailed to the last known address of each party in interest such decision shall be considered the decision of the industrial commission, unless set aside, reversed, or modified by such commissioner or examiner within such time. Within 10 days after the filing of any such petition the commission shall, on the basis of the evidence previously submitted in such ease, affirm, reverse, set aside, or modify such decision, or direct the taking of additional testimony. Any decision made by the commission shall, if not modified or changed by it within 20 days, become the final decision of the commission and shall then be subject to judicial review on the same grounds and in the same manner as decisions of the industrial commission under the workmen's compensation act may be reviewed.

(6) The commission shall have the power to remove or transfer the proceedings pending before a commissioner or examiner; and may on its own motion set aside, modify, or change any decision, whether made by a superintendent or deputy, by a district appeal board, by a commissioner or examiner, or by the commission as a body, at any time within 20 days of the date thereof if it shall discover any mis-

take therein or upon the grounds of newly discovered evidence.

(7) In the discharge of their duties under this section, the superintendent of any district public employment office, any member of a district appeal board, and any member, examiner, or duly authorized employee of the industrial commission shall have power to administer oaths to persons appearing before them, and by subpoenas (served in the manner in which circuit court subpoenas are served) to compel attendance of witnesses and the production of books, papers, documents, and records necessary or convenient to be used by them in connection with any disputed claim.

(8) A full and complete record shall be kept of all proceedings in connection with a disputed claim and all testimony shall be taken down by a stenographer

appointed by the commission.

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Sec. 108.101. Modified procedure.—The commission may modify the procedure prescribed in sections 108.08, 108.09, and 108.10, with a view to such establishment and determination of claims against employers exempted under section 108.15, as will be suitable to such cases and fair to the parties in interest.

Sec. 108.11. Agreement to contribute by employees.—(1) No agreement by an employee or by employees to pay any portion of the contributions required under this chapter from employers shall be valid. No employer shall make a deduction for such purpose from wages. Any employee claiming a violation of this provision may, to recover wage deductions wrongfully made, have recourse to the method set up in section 108.10 for settling disputed claims.

(2) But nothing in this chapter shall affect the validity of voluntary arrangements whereby employees freely agree to make contributions to a fund for the purpose of securing unemployment compensation additional to the benefits

provided in this chapter.

Sec. 108.12. Waiver of benefit.—No agreement by an employee to waive his

right to benefits or any other rights under this chapter shall be valid.

SEC. 108.13. Assignment.—No claim for benefit under this chapter or under any approved voluntary unemployment benefit plan shall be assignable before payment, but this provision shall not affect the survival thereof; nor shall any claim for benefit awarded, adjudged, or paid, be subject to be taken for the debts of the party entitled thereto.

Sec. 108.14. Administration.—(1) This chapter shall be administered by the

industrial commission.

(2) The commission shall have power and authority to adopt and enforce all rules and regulations which it finds necessary or suitable to carry out the provisions of this chapter. All such rules and regulations shall be published in the State's official newspaper and shall take effect 10 days after such publication. A copy of such rules and regulations shall be delivered to every person making

application therefor. The commission may require from employers, whether subject to this chapter or not, any reports on employment, wages, hours and related matters which it deems necessary to carry out the provisions of this

(3) The commission may appoint, employ, and pay as many persons as it deems necessary to administer and to carry out the purposes of this chapter, and may make all other expenditures of any kind which it deems necessary or suitable to this end. But it shall not pay to any member of a district appeal board more

than \$5 of compensation per day of services.

(4) The commission may create as many employment districts and district appeal boards and may establish and maintain as many free public employment offices as it deems necessary to carry out the provisions of this chapter. The commission shall have power to finance either partly or completely such public employment offices as it deems necessary under this chapter, from the funds appropriated to the commission for its expenses under this chapter, whether or not the political subdivision in which such office is located agrees to pay or does pay any part of the expenses of such office.

(5) The commission shall appoint advisory employment committees, by local districts or by industries or for the whole State, consisting in each case of one or more representatives each of employers, employees and the public, who shall assist the commission, without compensation but with reimbursement of necessary expenses, in administering and carrying out the purposes and provisions of

this chapter.

(6) It shall be one of the purposes of this chapter to promote the regularization of employment in enterprises, localities, industries, and the State. mission, with the advice and aid of its advisory employment committees, shall take all appropriate steps within its means to reduce and prevent unemployment. To this end the commission may employ experts, and may carry on and publish the results of any investigations and research which it deems relevant, whether or not directly related to the other purposes and specific provisions of this chapter. At least once a year the commission shall compile and publish a summary report stating the operations and status of each employer's account or other unemployment reserve and covering such other material as it deems significant in connec-

tion with the operations and purposes of this chapter.

Sec. 108.15. Exemption.—(1) The commission shall exempt, from the provisions of this chapter, except sections 108.12, 108.14, 108.15, 108.19, 108.21, 108.22, and 108.24, any employer who guarantees, under a plan approved by the commission, to all his eligible employees (and to each new eligible employee who is continued in employment after a probationary period of one month), in advance for a stated 1-year period, at least 42 weeks of work or wages, for at least 36 hours in each such week, if satisfied that the employer can and will make good such promise under all circumstances. The words "eligible employee" in this subsection shall mean an employee who if unemployed would not be barred from eligibility for benefits by any of paragraphs (e), (f), and (g) of subsection (5) of section 108.04 or by subsection (8) of section 108.04. But such employer shall not be required to make good such guaranty in the case of any individual employee who loses his employment under any of the conditions enumerated in subsection (5) of section 108.04.

(2) The commission shall exempt from the provisions of this chapter, except sections 108.03, 108.04, 108.07, 108.101, 108.12, 108.13, 108.14, 108.15, 108.19, 108.21, 108.22, 108.23, 108.24, 108.25, and 108.26, any employer or group of employers submitting a plan for unemployment benefits which the commission finds: (a) Makes eligible for benefits at least the employees who would be eligible for benefits under the compulsory features of this act; (b) provides that the proportion of the benefits to be financed by the employer or employers will on the whole be equal to or greater than the benefits which would be provided under the compulsory features of this act; and (c) is on the whole as beneficial in all other respects to such employees as the compulsory plan provided in this act. such a plan any contributions are made by employees, the accounts of the plan shall be so kept as to make clear what proportion of the benefits is financed by the employer or employers and what proportion by the employees. If under such a plan any contributions are made by employees, the commission may require that such employees be represented, by representatives of their own choosing, in the direct administration of such plan, and the commission may take any steps necessary and appropriate to assure such representation to contributing employees.

(3) No employer or group of employers exempted under this section shall be permitted to insure the liability to pay benefits or wages in any insurance company; and if such employer or employers enters or enter into an agreement for any form of insurance coverage such action shall automatically operate as a

revocation of such exemption.

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(4) As a condition of granting exemption, the commission may require the employer or group to furnish such security as the commission may deem sufficient to assure payment of all promised benefits or wages, including the setting up of proper reserves. Such reserves and other security and also the manner in which an exempted employer carries out his promises of benefits or employment shall be subject to inspection and investigation by the commission at any reasonable time. If the commission shall deem it necessary it may require an exempted employer to furnish additional security to assure fulfillment of his promises to his employees.

(5) If an exempted employer or group of employers fails to furnish security satisfactory to the commission, or fails to fulfill the promises made to employees, or willfully fails to furnish any reports that the commission may require under this chapter, or otherwise to comply with the applicable portions of this chapter and the rules, regulations, and orders of the commission pertaining to the administration thereof, the commission may, upon 10 days' notice and the opportunity to be heard, revoke the exemption of such employer or group. In such case or in case any exempted employer or group voluntarily terminates exemption, such employer or each of such group of employers shall at once pay into the fund an amount equal to the balance which would have been standing to his account had he been making the contributions to the fund and paying out the benefits provided in this chapter: Provided, That, in any case where such balance can not reasonably and definitely be determined, and specifically in the case of an employer exempted under subsection 1 of this section, the commission may require such employer to meet his liability under the present subsection by paying into the fund a lump-sum amount equal to the contributions he would, if not exempted, have paid into the fund under section 108.18 during the 12 months preceding termination of his exemption. The account of any employer whose exemption has been terminated shall thenceforth be liable to pay to his employees the benefits which may remain or thereafter become due them, as if such employer had not been exempted under this section; and such employer shall thenceforth pay all contributions regularly required under this chapter from nonexempted employers.

(6) Each employer exempted under this section shall be liable to make all contributions, to pay directly to employees all benefits, to pay all penalties, and otherwise to comply with all the provisions of this chapter, except as specifically provided in this section and in suitable rules to be formulated by the commission

consistent with the purposes and provisions of this chapter.

(7) Such plan shall provide that upon the going out of business in this State by any employer, or the legal abandonment of the plan, the funds which shall have been contributed under such plan shall be retained for a sufficient period to meet all liability for benefits which may thereafter accrue, and that at the end of such period the proportion then remaining of employer contributions shall be released to the employer or his assigns, and the proportion then remaining of employee contributions shall be distributed in such equitable manner as the

commission may approve.

(8) The rules and regulations for the government of such plan must be submitted to and approved by the commission. A plan, so approved, shall, when put into effect, constitute a contract between each employer and every other employer participating in that plan, and between the employer or employers on the one hand and on the other hand all employees who come under it; and shall not thereafter be abandoned or modified without the approval of the commission: Provided, That at any time after five years from and after the passage of this act the commission may, on the petition of any interested party, or on its own motion, and after public hearing, modify any such plan to conform to the standards then provided by the law for approved voluntary unemployment benefit plans.

provided by the law for approved voluntary unemployment benefit plans.

Sec. 108.16. Unemployment reserve funds.—(1) For the purpose of carrying out the provisions of this chapter there is established a fund to be known as the unemployment reserve fund, to be administered by the State without liability on the part of the State beyond the amount of the fund. This fund shall consist of all contributions and moneys paid into and received by the fund pursuant to this chapter and of properties and securities acquired by and through the use

of moneys belonging to the fund.

(2) A separate account shall be kept by the industrial commission with each employer contributing to said fund, and this separate employer's account shall never be merged with any other account except as provided in subsection (3) of this section.

(3) Whenever two or more employers in the same industry or locality desire to pool their several accounts with the fund, with a view to regularizing their employment by cooperative activity, they may file with the commission a written application to merge their several accounts in a new joint account with the fund. If in its judgment the plan has merit, the commission shall establish such a joint account: *Provided*, That the several employers each accept such suitable rules and regulations not inconsistent with the provisions of this chapter as may be drawn up by the commission with reference to the conduct and dis-

solution of such joint accounts.

(4) All contributions payable to the unemployment reserve fund shall be paid to the industrial commission, and shall daily be paid over by the commission to the State treasurer and credited to the unemployment reserve fund. Payments from said fund shall be made upon vouchers of the industrial commission. The State treasurer shall be ex officio the treasurer and custodian of the unemployment reserve fund. He shall give a separate and additional bond conditioned upon his faithful performance of these duties, in such amount as may be recommended by the industrial commission and fixed by the governor. All premiums upon the bond required pursuant to this section when furnished by an authorized surety company or by a duly constituted governmental bonding fund shall be paid from

the interest earnings of the unemployment reserve fund.

(5) The unemployment reserve fund shall be invested by the annuity and investment board in the readily marketable obligations of the United States of America, of any of its 48 State governments including this State, and of any city, county, or other governmental subdivision of this State, all having a maturity of not over five years from the date of purchase. The investments of the fund shall be so made that all the assets of the fund shall always be readily convertible into cash when needed. When so directed by the industrial commission, the board shall dispose of securities belonging to the fund to secure cash needed for the payment of benefits. All expenses of the annuity and investment board in the investment of the unemployment reserve fund shall be paid from the interest earnings of said fund, as provided in subsection (1) of section 20.725.

(6) All net earnings on moneys belonging to the unemployment reserve fund shall be credited thereto, and shall, at the close of each fiscal year, be apportioned

by the commission equitably to the several employers' accounts.

(7) If any employer shall become exempted under section 108.15, or shall cease to be subject to this chapter, or shall permanently go out of business in this State (except as provided in subsection (8) of this section), such employer shall, upon the expiration of six months (or prior thereto if he shall furnish surety satisfactory to the commission for the payment of benefits becoming due under this chapter during the remainder of such 6-month period), receive the balance

then standing to his credit in the fund.

(8) If any employer shall transfer his business in whole or in part or shall otherwise reorganize such business, the successor in interest is hereby required to take over (in proportion to the extent of such transfer, as determined for the purposes of this chapter by the commission) the resources and liabilities of such employer's account, and to continue without interruption the payment of all contributions and benefits which would have been due for payment under this chapter in case such employer had continued in business without such transfer or reorganization.

Sec. 108.17. Payment of contributions.—(1) On and after the first day of July, 1933, contributions shall accrue and shall become payable by each employer then subject to this chapter in accordance with its provisions. Thereafter contributions shall accrue and become payable by any employer on and after the date

on which he becomes newly subject to this chapter.

(2) All contributions required under this chapter from employers shall be paid to the industrial commission, at such times and in such manner as the commission may prescribe, except as provided otherwise in the case of employers exempted

under section 108.15.

Sec. 108.18. Contributions to reserve fund.—The contribution regularly payable by each employer into his account with the fund shall be an amount equal to 2 per cent per annum of his pay roll. (In order that reserves shall be built up for all employees potentially eligible to benefits, "pay roll" shall include all wages, salaries, and remuneration paid to employees subject to this chapter; except that it shall not include the amount paid to an employee or officer employed on a contractual basis for a fixed period at a fixed monthly salary, which will aggregate at least \$1,500 if said period is less than 12 months, or amount to at least \$1,500 per annum if such period is 12 months or more, provided such contract is duly reported to the commission by the employer; nor shall it include any salary or wage

of \$300 or more per month.) During an employer's first two years of contribution payments, and whenever thereafter his account amounts to less than \$55 reserve per employee, the employer shall make contributions to the fund at the rate of 2 per cent per annum on his pay roll. If the employer has been continuously subject to this chapter during the two preceding years, the rate of contributions may be reduced or suspended under the following conditions:

(1) Whenever the employer's account amounts to \$55 but less than \$75 reserve

per employee, such employer shall pay contributions to the fund at the rate of

1 per cent per annum on his pay roll.

(2) Whenever and while the employer's account has a reserve per employee of \$75 or more, no contributions to the unemployment reserve and shall be required

of such employer.

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Sec. 108.19. Contributions to the administration fund.—Each employer subject to this chapter, including every employer exempted under section 108.15, shall regularly contribute to the unemployment administration fund created in section 108.20 at the rate of two-tenths of 1 per cent per annum on his pay roll as defined in section 108.18. But the commission may prescribe at the close of any fiscal year such lower rates of contribution under this section, to apply to classes of employers throughout the ensuing fiscal year, as will in the commission's judgment adequately finance the administration of this chapter, and as will in the commission's judgment fairly represent the relative cost of the services rendered by the commission to each such class.

SEC. 108.20. Unemployment administration fund; appropriation.—(1) To finance the administration of this chapter and to carry out its provisions and purposes there is established the Unemployment Administration Fund. This fund shall consist of all contributions and moneys paid to the industrial commission for the administration fund as provided in subsection (5) of section 108.06, and in sec-

tions 108.19 and 108.22.

(2) All amounts received by the commission for such fund shall daily be paid over to the State treasurer and credited to the unemployment administration fund, and, as provided in section 20.573 of the statutes, are appropriated to the

commission for the administration of this chapter.

SEC. 108.21. Record and audit of pay rolls.—Every employer, whether exempted or not, shall keep a true and accurate employment record of all his employees, whether qualified and eligible to unemployment benefits or not, and of the hours worked for him by each and of the wages paid by him to each employee, and shall furnish to the commission upon demand a sworn statement of the same. Such record shall be open to inspection by the commission or its authorized repre-

sentatives at any reasonable time.

Sec. 108.22. Default of employer.—If any employer whether exempted or not shall default in any payment required of him under this chapter he shall become additionally liable for interest on such payment at 12 per cent per annum from the date such payment became due, such interest to be paid to the administration If after due notice this payment plus interest at 12 per cent per annum is not made, it shall be collected by a civil action in the name of the State, the defaulting employer to pay the costs of such action. The payment originally due shall be paid to the commission, and credited, as may be proper in each case, either to the fund and to the defaulting employer's account or to the administration fund. The interest thus collected shall be paid to the administration fund.

Sec. 108.23. Bankruptcy of employer.—In the event of bankruptcy or insolvency of any employer, unpaid claims for benefits and unpaid amounts due the fund under this chapter or to a fund or reserve under any approved voluntary unemployment benefit plan shall have the same preference as is accorded in subsection (1) of section 102.28 to unpaid claims for compensation or compensa-

tion insurance.

Sec. 108.24. Violations.—(1) Any person who willfully makes a false statement or representation to obtain any benefit or payment under the provisions of this chapter, either for himself or for any other person, or to lower any contribution required of him, and any employer who makes a deduction from the wages of any employee in order to pay any portion of the contribution required of such employer under this chapter, shall upon conviction be deemed guilty of a mis-demeanor and be punished by a fine of not less than \$25 nor more than \$100, or by imprisonment in the county jail not longer than 30 days, or by both such fine and imprisonment; and each such false statement and each such deduction from wages shall constitute a separate and distinct offense.

(2) Any employer who willfully refuses or fails to pay any contribution required of him under this chapter, and any person who willfully and unlawfully fails or neglects to appear or to testify or to produce books, papers, and records as required at any hearing under this chapter, shall upon conviction be deemed guilty of a misdemeanor and be fined not less than \$25 nor more than \$100, or be imprisoned in the county jail not longer than 30 days, or be punished by both such fine and imprisonment; and every day of such refusal, failure, or neglect shall constitute a separate and distinct offense.

3) On complaint of the commission the fines specified in this section may be

collected by the State in an action for debt.

Sec. 108.25. Use of unemployment reserve for public works.—(1) If the State or any of its political subdivisions during a period of unemployment either directly or through a contractor provides work which in the opinion of the commission is an unemployment relief measure and which conforms to standards of wages and conditions prescribed by the commission, such work shall be deemed suitable employment within the meaning and subject to the limitations of subsection (6) of section 108.04: Provided, That an employee who accepts such work for any calendar week in which he would otherwise be totally unemployed and eligible for benefits shall be entitled to receive such benefits in the form of wages paid him for such governmental work. To this end the State or subdivision giving such work and wages to such employee in any calendar week shall receive his benefits for such week, for the purpose of partially financing such employee's work and wages on such governmental unemployment relief project.

(2) Benefits payable under this section to an employee in the form of wages from this State or a political subdivision for work on a relief project shall cease. as provided in subsection (6) of section 108.04, for any period after such employee has without good cause failed to apply for suitable employment other than such governmental work when notified, or has refused to accept suitable employment

other than such governmental work when offered him.

Sec. 108.26. Vocational education.—When any employee is unemployed and eligible for benefits under this chapter, he may be recommended by the superintendent of the district employment office to attend vocational or other school during his unemployment. If he attends school under conditions approved by such superintendent and does satisfactory work in his classes he shall be eligible for an additional benefit of \$1 per week, to be paid from the administration fund. The education shall be furnished at public expense and any fee which may customarily be charged for attendance at such classes must be paid by the town,

village, or city in which such employee resides.

Sec. 108.27. Separability of provisions.—If any provision of this chapter, or the application thereof to any person or circumstance, is held invalid, the remainder of the chapter and the application of such provision to other persons or

circumstances shall not be affected thereby.

# Recommendations of Interstate Commission on Unemployment

HE report of the Interstate Commission on Unemployment Insurance that was published in February, 1932, is summarized briefly below. The commission, made up of representatives of the governors of New York, Ohio, Massachusetts, Pennsylvania, New Jersey, and Connecticut, makes its recommendations on the basis of inquiries carried on by its various subcommittees as to the problems arising in connection with the operation of unemployment insurance systems. Leo Wolman of New York acted as chairman of the com-The other committee members were: Charles R. Blunt, New Jersey; A. Lincoln Filene, Massachusetts; C. A. Kulp, Pennsylvania; W. M. Leiserson, Ohio; and W. J. Couper, Connecticut.

Viewing the problem of unemployment as many-sided, the committee believes it is unlikely that any single measure now adopted will successfully meet the needs of unemployed persons for the duration of unemployment or that such a measure will take care of all unemployed persons. However, it is stated that the most substantial progress may be expected from a system whereby provision is made to avoid the persistent unemployment and irregularity of operation which eemed, or be h such all con-

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e to nich are so characteristic of American industry. It is further stressed that any measures proposed should combine the greatest possible simplicity in principle and practice and look forward to progressive stabilization of conditions of employment.

## Recommendations

THE recommendations of the committee are as follows:

"1. The compulsory establishment of state-wide systems of unemployment reserves.

"2. The payment by each employer of a contribution amounting

to 2 per cent of his pay roll.

"3. The payments made by each employer shall constitute the unemployment reserve of his firm and shall be so treated in the

accounts.

"4. The maximum rate of benefit shall be 50 per cent of an employee's wage, or \$10 a week, whichever is lower; and the maximum period of benefit shall be 10 weeks within any 12 months. Employees who suffer unemployment by reason of short-time employment shall be eligible for benefits whenever their week's wages are less than 60 per cent of their average weekly wage, but the benefit for partial unemployment shall not exceed the difference between the wage actually received and 60 per cent of the employee's average weekly wage. In no case, however, shall the benefit of a part-time employee exceed \$10 a week.

"5. The financial responsibility of an employer shall be strictly

limited by the amount of his unemployment reserve.

"6. When the accumulated reserve per employee shall exceed \$50 the employer's contribution shall be reduced to 1 per cent of his pay roll; and, when the reserve has reached \$75, he shall make no further contributions to the fund until the reserve again falls below \$75 per employee.

"7. The State shall act as the custodian, investor, and disbursing

agent of the reserve funds.

"8. The State shall take prompt steps to extend its public employment service.

"9. The unemployment authority shall create stabilization

agencies.

"The most effective measures for achieving greater stabilization of employment can not obviously be accomplished by a single firm. Every effort should, therefore, be made by the unemployment administration to encourage cooperative action between firms and industries. To this end the unemployment administration should set up advisory committees of employers and employees and should have experts instructed to formulate plans to promote the regularization of employment in individual plants, localities, industries, and the State."

#### Discussion

These principles, the committee believes, combine the features on which a sound State unemployment compensation act should rest. Application of such an act is advocated for the largest possible number of employees, exclusive of agricultural workers and persons earning \$200 a month or over. Inclusion of all employees who work in establishments where six or more persons are employed is recommended.

It is recognized by the committee that the proposals are extremely modest. They are intentionally so, as it is not considered sound judgment to impose an onerous burden on American industry.

With respect to the rate of contributions to unemployment funds the 2 per cent rate was recommended as a safe limit because of the strictly defined and circumscribed limitations placed upon compen-

sable unemployment.

Adoption of a system of separate plant unemployment funds was recommended by all State representatives except Mr. Leiserson of Ohio. Mr. Leiserson was of the opinion that a system whereby contributions would be pooled might be desirable. Mr. Leiserson also recommended experiments with State unemployment insurance funds that provide for contributions from employees as well as employers.

# Unemployment Insurance and Savings Plan of J. I. Case Co.

APLAN for the creation of an individual reserve fund to be drawn upon by employees participating in the plan during periods of unemployment due to general business depression was put into effect in the plant of the J. I. Case Co. at Racine, Wis., in November, 1931. The company in outlining the purpose of the plan stated that since an industry, in order to live, must provide reserves for the usual and natural hazards of business, the employees of the industry should, likewise, make provision for the hazard of unemployment. The plan was set up by the company, therefore, to assist the employees in establishing such a reserve to protect them in case of prolonged unemployment.

The plan is applicable to all employees of the Racine factory working on an hourly or piece basis who have been in the employ of the company continuously for a period of six months and whose service has been satisfactory. Employees who, through promotion, are placed on a monthly basis may continue their contributions to the fund, although the company contributions in such cases will auto-

matically cease.

Until a reserve equal to the average full-time earnings of each employee for six months has been created, the company and the employee will each contribute 5 per cent of the semimonthly pay, and after that the contributions in each case will amount to 2 per cent of the earnings of the employee until a reserve equal to one year's average full-time earnings has been accumulated. These contributions cease temporarily, however, whenever the employee has had less than 70 hours' work in any semimonthly pay-roll period. When the amount to the employee's credit in the fund is equivalent to one year's earnings all contributions by the employer and the employee cease until the reserve is reduced through withdrawals below this amount, after which contributions will again be made until the reserve reaches the original amount.

Although it is stated in the plan that any obligation on the part of the company for the protection of employees during business depressions is fully discharged by the company's contribution and assistance in building up the individual reserves under this plan, the company agrees to lend every reasonable assistance to conserve each employee's reserve by helping him avoid the necessity for withdrawals from the

fund.

Withdrawals from the fund are permitted only during periods of business depression when the company can not furnish sufficient employment and the employee is unable to secure employment else-The withdrawals are authorized only when application is made in writing, when drafts upon the reserve are actually necessary, and after 90 days of unemployment. Payments from the fund, which are made at the regular semimonthly pay-roll dates, may not exceed 40 per cent of the average semimonthly earnings of the employee during the preceding 12 months and the amount withdrawn for any semimonthly pay period may not exceed \$40. No withdrawals are allowed if an employee is receiving benefits from the employees' benefit association or under the workmen's compensation law, unless the benefits are less than 40 per cent of the average earnings, in which case the difference between the benefits and that amount may be paid. In case of permanent disability an employee may draw upon the fund up to 40 per cent of his average earnings, less any disability benefits he may receive, until his reserve is exhausted; employees who have retired on account of age, either with or without a company pension, may likewise withdraw the same amount from the fund until the reserve is exhausted. In case of death the total amount in the fund to the employee's credit is paid in semimonthly installments to the widow or dependent minor children, but in the case of payments to other beneficiaries or legal heirs the part contributed by the company and the net earnings thereon are repaid to the company.

If an employee leaves the service of the company voluntarily and remains in the State of Wisconsin, all further contributions to the fund cease but his deposits will remain in the fund until the next period of general unemployment, when he may withdraw from his reserve under the same terms as though he were still an employee. If he leaves the State, however, the amount of his deposits plus the net earnings therefrom will be returned to him after giving the company due notice of his intention to leave. In case of dismissal, the employee will receive his contribution plus the net earnings, either in semimonthly installments, if he remains in the State, or in a lump sum if he permanently

gives up his residence in the State.

# Extension of Health Insurance for English Unemployed Persons

THE Labor Review for March, 1931, contained a summary of the English national health insurance (prolongation of insurance) act, 1930, by virtue of which persons who, on account of prolonged unemployment, had been unable to keep up their contributions to the insurance funds, and who normally would have lost their rights to benefits under the health insurance and the contributory pensions plans, would, subject to certain conditions, retain their rights to these benefits until the end of 1931. The Ministry of Labor Gazette for December, 1931 (p. 457), states that new legislation has given a further extension of this period.

The national health insurance (prolongation of insurance) act, 1931, which received the royal assent on December 11, continues insurance until December 31, 1932, both for the persons affected by the 1930 act and also for other persons who, by reason of prolonged unemployment, would, in the absence of fresh legislation, have ceased to be insured at the end of the present year or during the course of the year 1932.

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The new act further provides, as did the act of 1930, that, in order to enable approved societies to bear the additional cost of giving health insurance benefits to these persons, they are to receive a credit from the Exchequer at the rate of 36 contributions for each member who is maintained in benefit as a result of the act.

# English Expenditures on Public Social Services

THE Ministry of Labor Gazette for December, 1931, gives some data from a paper recently issued by the Government showing the total expenditures (other than out of loans for capital purposes) in England and Wales and in Scotland for certain social services during the fiscal year 1929–30, and, in some cases, the estimated expenditures for 1930–31, also.

The term "expenditure" as used in the return is restricted to expenditure from (1) local rates, (2) parliamentary votes and grants, and (3) other receipts (not being receipts from loans for capital purposes) accounted for by, or to, Government departments and local authorities. The "other receipts" include, for example, in the case of education, revenue from endowments, voluntary contributions, teachers' superannuation contributions, etc.; in the case of health insurance, unemployment insurance, and widows', orphans', and old-age contributory pensions, the contributions of employers and employed; in the case of housing, rents; etc.

The following table gives the total expenditure, as thus defined:

EXPENDITURE ON PUBLIC SOCIAL SERVICES, IN GREAT BRITAIN, YEARS ENDING MARCH 31, 1930 AND 1931

	England	and Wales	Scotland		
Expenditure under—	1929-30	1930-31	1929-30	<b>193</b> 0-31	
Unemployment insurance acts	£46, 682, 000 34, 710, 000	£88, 244, 000 35, 000, 000	£6, 614, 000 3, 860, 000	£13, 281, 000 3, 850, 000	
pensions acts	23, 585, 000 31, 749, 000 46, 202, 000 86, 955, 000	33, 376, 000 44, 291, 000 90, 355, 000	2, 860, 000 4, 031, 000 5, 173, 000 13, 555, 000	3, 788, 000 4, 176, 000 4, 929, 000 13, 943, 000	
Reformatory and industrial schools acts Public health acts relating to:     Hospitals and treatment of disease Maternity and child welfare work Housing of the working classes acts	539, 000 7, 376, 000 2, 370, 000 30, 879, 000	537, 000	1, 381, 000 291, 000 4, 719, 000	143,000 1,353,000 317,000 4,936,000	
Acts relating to the relief of the poor	40, 699, 000 40, 000 2, 421, 000 1, 440, 000	}	4, 254, 000 4, 000 1, 410, 000	3, 978, 000 1, 327, 000	
Total	355, 647, 000		48, 303, 000		

The most striking feature of the table is the increase shown for 1930-31 in the amounts devoted to unemployment insurance. These figures represent the situation before the changes made in the unemployment insurance scheme in the fall of 1931, and throw no light on the present position. In England and Wales, as far as data for the two years are presented, only two items, the expenditures under the war pensions and Ministry of Pensions acts and under acts relating to reformatory and industrial schools, showed a decrease in 1930-31 as compared with 1929-30. In Scotland, however, expenditures under these two heads decreased, as did also those under the national health insurance acts, acts relating to hospitals and the treatment of disease, acts relating to the relief of the poor, and the lunacy and mental deficiency acts.

# Spanish Unemployment Insurance Law Put into Operation

A SPANISH decree issued September 30, 1931, provides for the enforcement of the unemployment insurance law of May 25, 1931, according to the report from Curtis C. Jordan, American consul

at Barcelona, Spain, dated October 19, 1931.

The decree provides for the creation of a National Fund for Involuntary Unemployment (Caja Nacional Contra el Paro Forzoso). The Spanish word "caja" is said to be difficult to translate as it means both a fund and an office and in its present use appears to combine both meanings; that is, it is an office administering a fund. The Caja is not a completely independent organization but forms a part

of the National Insurance Institute.

The decree provides that the unemployment insurance office shall study the causes of unemployment and the means of reducing it and alleviating its effects, and that it shall administer the unemployment insurance fund. The board of directors includes representatives of certain Government departments, the National Insurance Institute, employers and employees, and other persons concerned with matters of public welfare and insurance. The funds of the Caja are to be secured through State appropriations, gifts, contributions from assisted insurance associations, and the income from funds or property under its own management. The Caja is authorized to assist only recognized associations for insurance against involuntary unemployment which are legally organized and which are not run for profit. The Caja works only through insurance societies and does not grant direct subsidies to unemployed workers.

All workers between the ages of 16 and 65 whose annual earnings do not exceed 6,000 pesetas <sup>1</sup> (\$1,158) are eligible for unemployment benefits, provided they have been registered in one of the recognized associations for six months preceding the beginning of unemployment. The insurance provisions, however, do not cover State, provincial, or municipal employees, or domestic servants. Foreign workers whose countries grant reciprocal rights are eligible for unemployment

benefits.

The unemployment benefits may not exceed 60 per cent of the wages normally paid in the district for the class of work customarily performed. The benefits are paid for a maximum of 60 days in any 12 consecutive months.

January 1, 1932, is set as the date of full effectiveness of the law.

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<sup>&</sup>lt;sup>1</sup> Conversions into United States currency on basis of peseta=19.3 cents.

# PRODUCTIVITY OF LABOR AND INDUSTRY

### Use of Loading Equipment in the Bituminous-Coal Industry in 1930

THE Bureau of Mines, United States Department of Commerce, reports for 1930 a further gain in the percentage of total deepmined coal produced by means of loading machines, pit-car loaders, and hand-loaded conveyors. In comparison with 1929 it is stated that the total mechanized tonnage increased by 23.7 per cent. It is also notable that there has been an increase in tonnage loaded by all types of machines.

Increase by States

Table 1 shows by States the total tonnage mechanically loaded in 1929 and 1930, and the actual and percentage increase or decrease in tonnage so loaded as between the two years.

TABLE 1.—INCREASE OR DECREASE IN TOTAL TONNAGE MECHANICALLY LOADED, 1929 TO 1930

and the second report in the second s	Amount (net tons) mechanically loaded				
State	State 1929 1930	1930	Increase or decrease from 1929 to 1930		
in the large of the part of th		Net tons	Per cent		
IllinoisIndiana	18, 252, 000 3, 274, 000	22, 803, 000 3, 503, 000	+4,551,000 +229,000	+24.9 +7.0	
Pennsylvania Wyoming	4, 234, 000 3, 002, 000	7, 035, 000 2, 865, 000	+2, 801, 000 -137, 000	+66.2	
Utah	920, 000 708, 000 812, 000	862, 000 1, 115, 000 989, 000	-58,000 $+407,000$ $+177,000$	-6.3 +57.3 +21.5	
West VirginiaVirginia	2, 698, 000 984, 000	3, 079, 000	-603, 000	-16.4	
Alabama Other States <sup>1</sup>	934, 000 2, 044, 000	2, 060, 000 2, 513, 000	+1, 126, 000 +469, 000	+120.6 +22.9	
Total	37, 862, 000	46, 824, 000	+8, 962, 000	+23.7	

¹ Ohio, Washington, Arkansas, Colorado, Missouri, Oklahoma, Tennessee, Maryland, New Mexico, North Carolina, and Iowa.

As is seen, the greatest increase in mechanically loaded tonnage took place in Alabama, i. e., 120 per cent. This gain was made possible by a number of new installations, especially pit-car loaders. In calling attention to the decreases that took place, it is pointed out that the decline was largely due to a falling off in total production and that actually in many districts the per cent of output attained by mechanized mining was higher than ever before.

<sup>&</sup>lt;sup>1</sup> Bituminous Coal Tables, 1930, by F. G. Tryon and L. Mann, Supplement to Weekly Coal Report, Dec. 15, 1931.

# Percentage of Deep-Mined Output Produced by Mechanized Loading

The positions of the various States as regards the percentage of total bituminous deep-mined output produced by mechanized loading in 1930 appear in Table 2.

TABLE 2.—RANK OF STATES IN PERCENTAGE OF TOTAL BITUMINOUS DEEP-MINED OUTPUT PRODUCED BY MECHANIZED LOADING IN 1930

State	Percentage loaded by machine	Percentage handled on pit-car loaders and hand- loaded con- veyors	Total percent age
Montana	52. 0	10.6	62. 6
Wyoming	41. 5 21. 2	7. 1 27. 1	48. 6 48. 3
Indiana	16. 5	17.3	33. 8
Utah	19. 7 1. 4	12.3	20. 2 13. 7
Alabama Pennsylvania	2.3	3.4	5. 7
West Virginia and Virginia	1.7	.6	2.3
Kentucky	.9	1.1	2.0
Total, United States	5. 2	5. 3	10. 5

According to the authors of the report under review this table serves to show that the high-wage-rate fields of the Rocky Mountains and the Middle West lead in the proportion of output produced by mechanized mining.

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# **INDUSTRIAL AND LABOR CONDITIONS**

# Revival of French Canadian Handicrafts in Quebec

THE Provincial Government of Quebec has recently inaugurated a provincial school of weaving in the city of Quebec. The director of the institution has already been designated. The traditional French-Canadian handicrafts of Quebec, which for some time past have been almost abandoned, although they were regarded long ago as very successful, are at present being revived. The old patterns and dyeing systems will again be used. Weaving, rug making, the making of dyes, and the fashioning by hand of artistic articles which may be easily sold to tourists are again to be taught. The plan to restore these old industrial activities has met with great encouragement, and it has become necessary to make provision for permanent headquarters for the school, which is to be located on the principal avenue in the city of Quebec.

The hope is expressed that these interesting crafts which readily appeal to the country people will be taken up by degrees in a serious manner by at least some of the 23,000 persons who, it is stated, have been sent from large cities and villages during 9 months in 1931 to the more rural districts or "land areas" of the Province. Attention is called to the fact that in the past year the government of Quebec has given a good deal of consideration to the problem of the recolonization of deserted sections. It is felt by that government that if 50 per cent of these 23,000 repatriated persons, constituting approximately 4,000 families, stay on the land, the efforts of the provincial authorities will have been worth while.

# Labor Cost on Irrigated Land in Nuevo Laredo District and in Coahuila, Mexico

A REPORT from the American consul, Romeyn Wormuth, at Nuevo Laredo, Mexico, dated September 26, 1931, contained the following estimates of cost of labor for the raising of crops on irrigated land (the Don Martin irrigation project) in that consular district and in Coahuila.

<sup>&</sup>lt;sup>1</sup> Report from Horatio Mooers, American consul at Quebec, Dec. 4, 1931.

#### ESTIMATED LABOR COST PER ACRE OF RAISING CROPS ON IRRIGATED LAND

[Conversions into United States currency on basis of peso=35 cents]

Item	Mexican currency	United States cur- rency
First plowing of land	Pesos 4. 00 2. 00	\$1.40 .70
Restoration and cleansing of irrigation ditches and banks	1. 60 . 30 2. 00 1. 00	. 56 . 10½ . 70 . 35
Second irrigation Picking by hand Collection and sorting	1. 10 2. 00 1. 00	.38½ .70 .35
Transport to warehouse and from warehouse to station  Total	4. 00	6. 65

#### Economic and Social Conditions in Palestine

THE 30,000 Jewish workers in Palestine are distributed as follows: 7,000 in agriculture; 4,500 in building and public works; 4,000 in factories and larger workshops; 3,000 in small workshops employing less than 7 persons; 1,500 in transport; and 10,000 in domestic service, clerical and technical employment, hospital service, etc. The above statistics are published in a report of the British Department of Over-

seas Trade on economic conditions in Palestine, July, 1931.

The General Federation of Jewish Labor in Palestine has a membership of 29,000, which includes the members of the cooperative agricultural settlement and their wives. It is estimated that approximately three-fourths of the Jewish workers in Palestine are tradeunionists. The percentage of Arab workers in the federation is small. Several unions of Arab workers have been organized from time to time, some of which are still in existence, but they have not been able to attract many workers and their influence has as yet been negligible in the labor market. There are no dependable figures as to the total number of Arab wage earners.

Unemployment.—The estimates of the average number of unemployed Jewish wage earners, 1926 to 1930, show that the fluctuations in the Palestine labor market were considerable in this period, the number unemployed being 6,000 in 1926, 7,400 in 1927, 2,280 in 1928,

1,000 in 1929, and 1,030 in 1930.

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The greater unemployment in 1926 and 1927 was chiefly the result of the financial and economic crisis. After 1927 conditions appreciably improved, but there was another setback in the latter half of 1930.

Wages and working hours.—In general the more important industrial establishments employing Jewish and mixed labor have an 8-hour working-day. Similar hours, also, as a rule, prevail in Jewish building and agriculture. In small Jewish and Arab workshops, however, the working hours range from 8 to 10 a day, and in some cases to 11 and 12. While time rates are ordinarily paid, there are many trades in which piecework is customary. Working in permanent or temporary cooperative groups is a widespread practice among Jewish laborers, particularly in the building trades. The work is done under contract and the earnings are divided equally or in accordance with family

conditions or the individual qualifications of members. Wages paid to different classes of workers, European and Asiatic, vary substantially, notwithstanding the adoption of a scale by Jewish labor unions in various trades.

The present union wage rates per day in the more important industrial undertakings are: Skilled workers, 400 to 600 mils (\$1.96 to \$2.94); semiskilled workers, 250 to 350 mils (\$1.23 to \$1.72); unskilled workers, 200 to 300 mils (\$0.98 to \$1.47). Union workers employed in agriculture are paid from 175 to 250 mils (\$0.86 to \$1.23) per day.

The wages of European laborers average approximately 100 mils (49 cents) more a day than Oriental laborers. The greater the skill and experience required, the less the difference in the wages of workers from various countries. Female workers are ordinarily employed in the textile and clothing industries and in the making of cigarettes, cardboard boxes, and artificial teeth. The earnings of these women are less than those of male workers in the same trades.

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Protection of labor.—Protective and regulatory labor legislation in Palestine includes—

- (a) Regulations concerning minimum age of employment, duration of work of children, nightwork, employment of women and children in dangerous industries, etc.
  - (b) Workmen's compensation ordinance.
  - (c) Fencing of dangerous machinery ordinance.
- (d) Ordinance to provide for the safety and inspection of steam boilers and prime movers.
- (e) Prevention of intimidation ordinance, with special relation to labor disputes.
  - (f) White phosphorus prohibition ordinance.

Palestine is an adherent to the international convention concerning the equality of treatment for national and foreign workers with reference to accident compensation.

Of the 33,590 immigrants to Palestine in the 5-year period 1926-1930, 28,165 were Jews. Of the 25,395 immigrants from that country in the same period, 18,029 were Jews.

<sup>1</sup> Conversions into United States currency made on basis of mil=about 49 cents.

# **CHILD LABOR**

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### Child-Labor Trends in New York

WHAT effect has an industrial depression upon the employment of children? Does the increasing need of their families make it necessary for them to become wage earners in the place of their unemployed elders, or does the prevailing slackness cut down opportunities for them also, and diminish the number of young workers? The division of women in industry of the New York Department of Labor, which has for some years been watching the trend of child labor in the State, publishes in the Industrial Bulletin of the department for January, 1932, some data bearing upon the question.

Three different sets of statistics may be looked upon as giving some indication of the extent of child labor—the number of employment certificates issued to children, the number of children attending school, and the number of child-labor violations found. Of these, the number of work certificates is first considered. Under the New York law, children aged 14 and under 16 must have an employment certificate testifying to the completion of certain grades of school work before they may be legally employed. Since 1925, children aged 16 and under 17 must also have a certificate testifying to physical fitness and giving proof of age. Up to March, 1928, this requirement applied only in cities with a population of 5,000 or more, but since then it has been in force throughout the State.

### **Employment Certificates Issued**

The number of regular work certificates issued to children under 16 is given for each year from 1910 to 1930, inclusive, and the number to children aged 16 and under 18, from 1925 onward. The following table gives these data, both for New York City and for the rest of the State, from 1918 to 1930, inclusive:

EMPLOYMENT CERTIFICATES ISSUED YEARLY IN NEW YORK, 1918 TO 1930

	New Y	ork City	Outside New York City		
Year	To children aged 14 and under 16	To children aged 16 and under 17	To children aged 14 and under 16	To children aged 16 and under 17	
1918	50, 710		16, 039	le Ivali	
[919]	49, 294		16, 587		
1920	50, 675		20, 126		
1921	38, 889		13, 123		
922	32, 492		11, 159		
1923	36, 518		18, 467		
1924	32, 162		16, 062		
1925	32, 814	7, 376	16, 132		
1926	35, 538	12,609	18, 289	11, 98	
1927	35, 717	12, 226	17, 787	11, 09	
	34, 313	12, 820	17, 298	8, 15	
920	35, 934	18, 841	18, 957	10, 75	
1930	27, 319	15, 014	16, 259	8, 84	

The continuation-school law which went into effect in 1920 undoubtedly had much to do with the decided drop in the number of regular employment certificates which followed. The decrease, which continued through 1922, is also to be attributed in part to the law (effective 1921) requiring a pledge of employment before a child could secure a regular employment certificate. Before this specific offer of employment was required, it is probable that many children applied for certificates who were afterward unable to find jobs, or who wished to leave school and had no intention of working regularly.

Since 1922 the number of regular employment certificates issued to children from 14 to 16 years in New York City has fluctuated between 32,000 and mere than 36,000 until 1930, when the number dropped to 27,319, a decrease of 24 per cent from the previous year. Thus in the depression year there was a sharp drop in the number of work certificates issued, seeming to indicate a decline in child labor since it can not be accounted for by any change in law or enforcement. There was also a marked decrease in the number of certificates issued to 16-year-olds in New York City in 1930. Certificates have been issued to children of this age since 1925 and in New York City showed an increase from 12,609 issued in 1926, the first full year, to 18,841 in 1929. In 1930, however, only 15,014 such certificates were issued, a decrease of 20 per cent from 1929.

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were issued, a decrease of 20 per cent from 1929.

Outside of New York City the number of certificates issued also showed a decrease in 1930 although it was not as marked. Employment certificates issued to children between 14 and 16 years of age dropped from 18,957 to 16,259, or 14 per cent; those issued to 16-year-old children from 10,751 to 8,845, or 18 per cent.

The number of vacation permits issued in 1930 showed an even greater decline. In New York City, for children of 14 and 15, these dropped from 13,698 in 1929 to 9,981 in 1930, a decrease of 27 per cent; for those aged 16 the fall was from 2,844 to 2,194, a decline of approximately 23 per cent. Outside of New York City the falling off in the total number of vacation permits issued amounted to 26 per cent.

### School Attendance

ATTENDANCE at the regular school sessions in New York is compulsory on all children under 14 and on all between 14 and 16 who are not employed. Changes in elementary-school attendance, therefore, represent, in the main, changes in the population of elementary-school age. There appears, however, to be a tendency to remain in school to a higher age than was formerly the custom.

According to a report by the New York Child Labor Committee, "What the new York child labor law has accomplished," there was a definite trend toward a later school leaving in New York State in the five years from 1922 to 1926. In 1922, 73 per cent of the regular employment certificates issued to children under 16 were to 15-year-olds; by 1926 the proportion had increased to 80 per cent. That only one-fifth of the children under 16 who began work in 1926 did so while they were 14 years old is attributed to the law requiring that 14-year-old children must be elementary-school graduates before they can go to work. In effect the law is operating more and more to make 15 years the practical minimum for leaving school.

Attendance in high school is not compulsory, so that any increase in the number registered indicates a voluntary extension of the period devoted to education and, broadly speaking, a decline in the volume of child labor. The following table shows the changes in high-school attendance, both for the State as a whole and for New York City, from 1918 to 1930, inclusive:

#### CHANGES IN HIGH-SCHOOL ATTENDANCE IN NEW YORK, 1918 TO 1930

MERONESONIETPO	New York	State	New York City		
Year	Number attending	Increase over previous year	Number attending	Increase over previous year	
1918	171, 523 172, 516 184, 753 200, 364 242, 072 271, 299 290, 511	Per cent 1. 1 . 6 7. 1 8. 4 20. 8 12. 1 7. 1	85, 136 83, 692 87, 167 86, 881 105, 193 118, 314 103, 108	Per cent 1.7 11.7 4.2 1.3 21.1 12.0 112.9	
1925	302, 211 321, 916 349, 709 354, 326 379, 912 420, 310	4. 0 6. 5 8. 6 1. 3 7. 2 10. 6	113, 538 125, 201 131, 038 138, 977 149, 366 159, 832	10. 1 10. 3 4. 7 6. 1 7. 8 7. 6	

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The marked increases in attendance in 1922 and 1923 are ascribed to changes in the education law, but no such explanation is available for the increases in the following years, nor for the position in 1930. For the State as a whole the increase in that year was greater than for any year since the changes in the law went into effect, while in New York City, though the increase over the previous year was not so marked the number enrolled was greater by over 41,000 than it had been in 1923 and more than 10,000 greater than in 1929. "With fewer jobs available it is apparent that larger numbers of children are going on to high school."

Child-Labor Violations

Changes in the number of children found illegally employed form a less satisfactory index of the extent of child labor than either of the other two, since they may be due mainly to changes in the labor law or in the method of enforcing it. The total number of children found illegally employed reached 6,896 in 1920, fell to 5,533 in 1921, and thereafter remained below 5,000 until 1929, when it reached 5,076. In 1930 it fell to 3,804, a decrease of 25 per cent. The decrease appeared in every type of violation, except in the illegal employment of children under 17 on tenement home work, which rose from 151 to 193. It is suggested that this increase, which had appeared even more markedly in the preceding year, was due to the fact that the time of inspection had been changed to a later hour, when the children were at home from school.

#### Conclusion

EACH of the three indexes of the trend of child labor, employment certificate, school attendance, and inspection records, has indicated a decrease in child labor during the depression years. Similar statistics for the next few years will be of especial interest in showing whether this represents a permanent decline in child labor or merely a temporary fluctuation due to scarcity of jobs.

# HEALTH AND INDUSTRIAL HYGIENE

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### Health of Insured Wage Earners During 1931

THE report of the Metropolitan Life Insurance Co. concerning the health record in 1931 of the millions of insured wage earners in the United States and Canada¹ shows that the record for the year was the most remarkable of all time. While the death rate was not at the absolute minimum, it exceeded the previous minimum by only 1 per cent and this in spite of the most severe industrial depression of a generation lasting throughout the year and an epidemic of influenza during the first quarter of the year. For certain sections of the country the rate was much lower, as among approximately 1,100,000 insured persons in the Pacific Coast and Mountain States the mortality was 4.1 per cent below the previous low point and in Canada 7.3 per cent below. For the locality east of the Rockies, where the great majority of the policyholders live, the mortality was 1.2 per cent higher. From these figures it is apparent that the economic conditions have not yet had any appreciable ill effect upon the public health.

The health outlook at the beginning of 1931 was far from favorable, as the depression of 1930 was becoming progressively worse, with the number of unemployed workers increasing in practically every No part of the country was exempt from the unfavorable business conditions, and thousands of families who had never before felt actual want had to face that condition. Such conditions were not conducive to good health and a low death rate. The epidemic of influenza and pneumonia which began in January and caused a pronounced rise in sickness and mortality covered the entire country, with especially large increases in mortality from this cause along the Atlantic seaboard. In February there was a sharp rise in the influenza death rate and an accompanying rise in the mortality from the principal "degenerative" diseases, so that the indications for the first quarter of the year were that 1931 would be a year showing mortality rates above the average. Conditions in April, however, improved so markedly that the death rate was one of the lowest for that month ever recorded for the policyholders of the company, and this trend continued for the remainder of the year.

In spite of the favorable showing for the year, however, it is questionable how long the depression can continue without causing an appreciable rise in the death rate. As the depression was preceded by a long period of good employment at high wages, many persons had been able to save money which carried them over the first of the depression. But as savings accounts become exhausted the full effect of the depression may be expected to appear. These effects have been retarded, also, by the unusual amount of help given by relief organizations and health agencies, and another factor has been the restriction of the diet to less and plainer food, which probably

<sup>&</sup>lt;sup>1</sup> Metropolitan Life Insurance Co. Statistical Bulletin, January, 1932.

in many cases has made for better health. However, the report states, there is no justification for the belief that hard times and good health go together, and it is important, therefore, that every vital public health activity should be continued so that the public may be protected against the ill effects usually following long periods of

unemployment.

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In 1931 the death rate of insured persons was 8.46 per 1,000 as compared with a rate of 12.53 per 1,000 in 1911. The actual number of deaths among the policyholders aged 1 year and over was 148,297. If the 1911 death rate had prevailed last year there would have been 219,596 deaths, so that the decline in mortality during the last 20 years resulted in the saving of 71,299 lives in the year 1931 alone. Since 1911-12 the reduction in the death rate has resulted in extending the life expectancy of insured wage earners 10.73 years. In comparison with the mortality rates for the general population a much greater improvement is shown for the industrial group. The latest available mortality figures for the general population are for 1930. In that year the mortality rate had declined only 12.1 per cent as compared with 1911, while the drop among the insured group was 33.2 per cent. In 1911 the death rate among the wage earners exceeded that of the general population by 24.3 per cent, while in 1930 the crude mortality rate of the insured wage earners was 3.3 per cent lower than that of the general population of comparable ages. This saving in lives has amounted to more than 400,000 in the period since 1911, when the welfare work of the Metropolitan began. Twenty years ago the expectation of life was about 6½ years more favorable in the general population than among the insured group, but by 1929 it had been reduced to a little less than three years. Lower rates than ever before were recorded for six diseases, all of great public-health importance, namely, tuberculosis, diphtheria, whooping cough, pneumonia, diarrheal complaints, and puerperal conditions, and for two types of accidental death-railroad accidents and accidental burns. The figures for typhoid fever and for machinery accidents were identical with minimum rates previously established.

The greatest single achievement during the year was a further reduction of 5.7 per cent in the mortality from tuberculosis. This is the more remarkable as it is the very last disease from which, under the prevailing economic conditions, we should expect a reduction in the death rate. The actual death rate was 76.7 per 100,000, which is 65.9 per cent below that for 1911 and 44.4 per cent below that for 1920. While tuberculosis has declined during these years among every element of the population, the greatest gain has been among the wage earners, although in spite of this fact it is still third among the causes

of death.

The death rates for all four of the principal communicable diseases were low in 1931, a new minimum being established for diphtheria and whooping cough. A drop of 24.6 per cent for diphtheria was recorded in one year and of 50 per cent in two years. The death rate of 4 per 100,000 is regarded as inexcusable, however, since by immunization it is possible to stamp it out altogether. The new record in the mortality rate from whooping cough was 1.7 per 100,000.

The establishment of a new minimum rate for pneumonia was unexpected in a year in which there was a widespread epidemic of

influenza, but even during the epidemic it was noted that the mortality from pneumonia did not rise as sharply as in former influenza outbreaks.

Improvement in community sanitation, partly due to the company's program of health education among the insured and partly the result of the efforts of other agencies in protecting food and milk supplies, has resulted in the pronounced downward tendency in the mortality rate from diarrhea and enteritis.

The death rate for diseases of pregnancy and childbirth established a new minimum of 11.9 per 100,000 in 1931—a reduction of 3.3 per cent from the previous low rate recorded in 1930. The downward trend of mortality from these diseases among insured women has been steady for the past decade.

Accidental burns and injuries sustained in railroad accidents were, respectively, 16 and 7 per cent below the previous minimum rates. Lower mortality rates than in 1930 were shown for alcoholism and chronic nephritis.

New high death rates, on the other hand, were shown for cancer, diseases of the heart, diabetes, and automobile accidents. The rate for cancer increased 7.4 per cent over the 1930 rate and was nearly 26 per cent higher than the rate for 1911. This increase takes first place among the unfavorable developments for the year. Organic heart disease was responsible for 18 out of every 100 deaths among the policyholders in 1931. Although, since 1922, heart disease has been the leading cause of death among policyholders, the rate is increasing at the older ages only, and there is a pronounced downward tendency among children and young adults. The mortality from diabetes rose 14.4 per cent in 1931, which established a new maximum. This increase has taken place particularly among women, and at ages beyond 45, the mortality having been markedly decreased at all ages under 45.

Automobile fatalities increased more than 5 per cent in 1931 among wage earners, and it is estimated that not less than 34,000 people lost their lives in motor-vehicle accidents in 1931. The death rate from alcoholism declined to 2.9 per 100,000, a reduction of 9.4 per cent from the 1930 rate, but mortality from cirrhosis of the liver, which is largely of alcoholic origin, increased 7.3 per cent in the same period.

Poliomyelitis (infantile paralysis) was responsible for a death rate of 2.6 per 100,000. This was the most extensive epidemic since 1916, but the case fatality rate was much lower than in the former epidemic and there was a lower incidence of cripplings in 1931.

# INDUSTRIAL ACCIDENTS AND SAFETY

### New Safety Code for Elevators

A REVISED safety code for elevators, dumb-waiters, and escalators has been completed after four years of research at the United States Bureau of Standards and an extensive investigation by a technical committee, representative of building, manufacturing, insurance, and governmental organizations, followed by approval of the American Standards Association.

The form and arrangements of the 1925 code have been followed closely, but a considerable amount of new material has been added, to cover the new developments in elevator construction as a result of the constant demand for increased speed. The difficulty of stopping rapidly moving elevators at floor levels necessitated automatic operation with automatic floor leveling devices where the speed exceeded 700 feet per minute. This required new types of control and additional measures to provide reasonable safety for life and limb.

The research work developed a redesign of practically all elevator buffers, and resulted in the inclusion in the code of test specifications

for these devices, for terminal stops, interlocks, and safeties.

The difficulties created by the excessive space required for elevators in modern skyscrapers has been recognized, and the code permits, for the first time, the use of two-story elevators under certain, specified conditions, to serve two floors at the same time. One operator is required for each cage, and it must not be possible to move the elevator unless both doors are closed. It also points out that it may soon be necessary to consider the use of two single elevators in the same elevator shaft, and the necessary provisions to make such procedure reasonably safe.

It is strongly recommended that all elevator-shaft inclosures be of fire-resistant construction, especially in the modern tall buildings, where they are the principal, and often the only, practical means of

exit in case of fire.

Provisions are also included for the safe operation of freight and other types of elevators, passenger-operated elevators, dumb-waiters,

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The code is intended as a guide to State and municipal authorities in drafting regulations, as a standard reference to safety requirements for the use of elevator manufacturers, architects, and consulting engineers, and as a standard of operating practice for users of elevators. According to advice from the American Standards Association it has been adopted practically in verbatim form by the city of New York.

### Coal-Mine Fatalities in the United States in 1929

THE death rate per thousand 300-day workers in coal mines during 1929 was 4.54, or 2 per cent less than in 1928, according to the report of the United States Bureau of Mines on coal-mine fatalities in the United States in 1929, published as its Bulletin 341. The number

of deaths per million tons of coal produced declined even more, from 3.78 in 1928 to 3.59 in 1929, a decrease of 5 per cent. The actual number of deaths during 1929 was 2,187, or 11 more than reported for 1928, but as the mines were in operation for 221 days, or 15 days more than in the preceding year, the number of man-days worked increased from 140,604,141 in 1928 to 144,463,453 in 1929, with a consequent reduction in fatality rate.

An all-time record in the average daily productivity of coal miners was established in 1929. The average output of coal per man per day rose to 4.21 tons, as compared with 4.10 tons per day for 1928, the previous maximum production. The total production in 1929 was 608,816,788 short tons. The average number of days worked per man during the year was 221 as compared with 206 in 1928.

The Bureau of Mines does not collect statistics for nonfatal injuries in coal mines, but an estimate is published for 1929 of 85,000 nonfatal lost-time injuries at bituminous coal mines, and 35,000 nonfatal lost-time injuries at anthracite mines, a total of 120,000 nonfatal injuries for the industry.

Table 1 shows the number of workers employed, days worked, number of fatalities, and production per man, by 5-year periods from 1906 to 1925, and by years, 1926 to 1929.

TABLE 1.—NUMBER OF WORKERS, NUMBER OF FATALITIES, AND PRODUCTION IN COAL MINES, 1906 TO 1929

	Men employed		Aver-	Men killed		Produc-	Average production per man		Deaths
Period or year	Actual number	Equiva- lent in 300-day workers	age days ac- tive	Num- ber	Rate per 1,000 300-day workers	tion per death (short tons)	Tons per year	Tons per day	per mil- lion tons
1906-1910 (average) 1 1911-1915 (average) 1 1916-1920 (average) 1 1921-1925 (average) 1 1926 1 1927 1 1928 1 1929 1	675, 067 739, 169 760, 381 811, 803 759, 033 759, 177 682, 831 654, 494	484, 454 541, 489 599, 781 484, 071 559, 426 503, 065 468, 680 481, 545	215 220 237 179 221 199 206 221	2, 658 2, 517 2, 419 2, 215 2, 518 2, 231 2, 176 2, 187	5. 49 4. 65 4. 03 4. 58 4. 50 4. 43 4. 64 4. 54	169, 719 210, 253 258, 944 252, 346 261, 241 267, 978 264, 749 278, 380	668 716 824 689 867 788 844 930	3. 10 3. 26 3. 48 3. 85 3. 92 3. 96 4. 10 4. 21	5. 8 4. 7 3. 8 3. 9 3. 8 3. 7 3. 7 3. 5

<sup>&</sup>lt;sup>1</sup> Figures for 1906 to 1909, inclusive, are only for States under inspection service. Figures for 1909 as to average days active were estimated by the Bureau of Mines.

There were 2,047 underground fatalities and 111 surface accidents in 1929. Falls of roof or face accounted for 1,182 of the underground deaths. The next largest number of fatalities underground was due to mine cars and locomotives (413 deaths), followed by major explosions of gas or coal dust (145 deaths).

The difference in fatality rates for bituminous mines and anthracite mines is shown in Table 2, which contains rates for each type and for both types combined, by 5-year periods from 1891 to 1925, and by years, 1926 to 1929.

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TABLE 2.-FATALITY RATES FOR COAL MINES, 1891 TO 1929 1

[Includes underground and surface accidents]

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	Fatality rates in—										
Period or year	Bitu	minous n	nines	Ant	hracite m	ines	All mines				
	Per 1,000 em- ployed		Per mil- lion tons mined	Per 1,000 em- ployed		Per mil- lion tons mined		Per 1,000 300-day workers	Per million tons		
891-1895 (average) _ 896-1900 (average) _ 901-1905 (average) _		4. 02 4. 06 4. 81	4. 84 4. 46 5. 17	3. 27 3. 03 3. 36	4. 99 5. 58 5. 38	8. 12 7. 94 7. 69	2.91 2.95 3.45	4. 38 4. 50 4. 95	5. 8° 5. 34 5. 6°		
906-1910 (average) _ 911-1915 (average) _ 916-1920 (average) _	3. 27 3. 05	5. 57 4. 75 4. 03	5. 50 4. 31 3. 48	3. 70 3. 52 3. 70	5. 25 4. 37 4. 06	7. 67 6. 95 6. 07	3. 94 3. 40 3. 18	5. 48 · 4. 65 4. 03	5.8 4.7 3.8		
921-1 <b>925 (average)</b> _ 926 927	2. 70 3. 48 2. 93	4.87 4.86 4.60	3. 67 3. 60 3. 36	2. 83 2. 74 2. 96	3. 71 3. 37 3. 94	5. 80 5. 36 6. 11	2. 73 3. 32 2. 94	4. 58 4. 50 4. 43	3. 9 3. 8 3. 7		
928 929	3. 31 3. 39	4. 90 4. 63	3. 45 3. 19	2. 78 3. 18	3. 85 4. 24	5. 93 6. 53	3. 19 3. 34	4. 64 4. 54	3. 7 3. 5		

<sup>&</sup>lt;sup>1</sup> Prior to 1910 certain States did not maintain records of accidents. The above rates are based exclusively on tonnage and men employed in States for which accident records are available.

Reports furnished to the Bureau of Mines showed that 75 per cent of the bituminous-coal mines that produced coal in 1929 were operated on the basis of 8 hours per day, and that these 8-hour mines employed 90 per cent of all persons who worked at bituminous-coal mines during the year. Four per cent of the mines, employing about 7 per cent of the total workers, were on a 9-hour basis, and less than 1 per cent of the mines, employing less than 1 per cent of the workers, were on a 10-hour basis. All workers in the anthracite mines of Pennsylvania were employed at 8-hour mines.

# Metal-Mine Accidents in the United States, 1929

THE death rate from accidents in metal and nonmetallic mineral mines, except coal mines, for 1929 was 3.03 per thousand 300-day workers, according to the report of the United States Bureau of Mines on metal-mine accidents in the United States for 1929, published as its Bulletin 342. This was 21 per cent higher than the unusually low rate for 1928 (2.50), but lower than for all other years except 1923 and 1925. The nonfatal lost-time injury rate was 200.11 for 1929, 3 per cent less than for 1928 (205.61), and lower than for any year since 1913. Published figures for 1911, 1912, and 1913, the earliest years for which annual statistics were collected, indicate lower rates, but the Bureau of Mines believes this is probably due to incomplete reports from the mine owners during those years.

The total number of workers was 118,735 in 1929, as compared with 113,866 in 1928, and the average number of days worked per man was 292 in 1929, as against 288 in 1928, making the total number of days worked 34,618,120 in 1929 as compared with 32,803,610 in 1928. The actual number of workers killed in 1929 was 350, or 77 more than in 1928, while the actual number of lost-time injuries was 23,092 in 1929, or 609 more than in 1928.

As compared with 1928, the death rate for 1929 per thousand 300-day workers increased 20 per cent in underground mining operations

and 78 per cent in open-cut mining operations, but declined 3 per cent for workers in surface shops and yards. The nonfatal injury rate increased 19 per cent in open-cut mining operations, but was reduced 4 per cent in underground mining operations and 11 per cent for workers in surface shops and yards.

The principal cause of fatal accidents was, as usual, fall of rock from the roof or wall, which was also the outstanding cause of nonfatal injuries. Other prominent causes of fatalities, in the order of their importance and by location of operations, were explosives, haulage, and falls of persons in underground accidents; skip, cage, or bucket, and falling down shaft in shaft accidents; falls of persons in surface accidents; and falls or slides of rock in open-pit accidents.

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In nonfatal injuries other principal causes underground were fall of rock, loading ore at the working face, haulage, timber or hand tools, and drilling. Falling objects and accidents connected with the skip, cage, or bucket were the chief causes in the shaft; while hand tools, falls of persons, machinery, and mine cars were mainly responsible for surface accidents; and handling materials, falls or slides of rock or ore, falls of persons, haulage, and hand tools predominated in open-pit accidents.

The table following shows the number of workers employed, the number killed and injured, and fatal and nonfatal injury rates in the different groups of metal mines and in nonmetallic mineral mines in 1929 compared with 1928.

EMPLOYMENT AND ACCIDENTS IN DIFFERENT TYPES OF METAL MINES AND IN NONMETALLIC MINERAL MINES (EXCEPT COAL), 1928 AND 1929

	Men er	nployed		Men killed		Men injured	
Year, and type of mine	Actual number	ctual lent in 300-day workers		Num- ber	Rate per 1,000 300-day workers	Num- ber	Rate per 1,000 300-day worker
1928		100000	TIVEL	1111			
Copper Gold, silver, and miscellaneous metal Iron Lead and zinc (Mississippi Valley) Nonmetallic mineral	30, 561 31, 622 29, 145 10, 334 12, 204	33, 002 30, 441 25, 956 8, 659 11, 287	324 289 267 251 277	100 79 56 14 24	3. 03 2. 60 2. 16 1. 62 2. 13	7, 293 8, 180 2, 547 2, 560 1, 903	220. 98 268. 73 98. 13 295. 6 168. 6
Total	113, 866	109, 345	288	273	2. 50	22, 483	205. 6
1929 CopperGold, silver, and miscellaneous metalIron Lead and zinc (Mississippi Valley)Nonmetallic mineral.	37, 147 30, 861 28, 219 11, 177 11, 331	39, 946 28, 995 26, 837 9, 119 10, 497	323 282 285 245 278	121 106 80 19 24	3. 03 3. 66 2. 98 2. 08 2. 29	8, 941 7, 810 2, 404 2, 173 1, 764	223. 83 269. 30 89. 51 238. 23 168. 0
Total	118, 735	115, 394	292	350	3. 03	23, 092	200. 1

### Accidents at Metallurgical Works in the United States in 1929

ACCORDING to the report of the United States Bureau of Mines on accidents at metallurgical works in the United States during 1929, the death rates per thousand 300-day workers for 1929, as compared with 1928, were 2 per cent lower for ore-dressing plants and 41 per cent lower for auxiliary works, but 16 per cent higher for smelting plants, exclusive of blast furnaces. The nonfatal injury rates per thousand 300-day workers for 1929, as compared with 1928, were 12 per cent lower for ore-dressing plants and 4 per cent lower for smelting plants, exclusive of blast furnaces, but 3 per cent higher for auxiliary plants.

Combined figures for all three classes of plants show a death rate

Combined figures for all three classes of plants show a death rate of 0.80 and a nonfatal injury rate of 85.38 per thousand 300-day workers for 1929, as compared with a death rate of 0.84 and a non-

fatal injury rate of 88.36 for 1928.

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The table following shows the number of workers employed, the number killed and injured, and fatal and nonfatal accident rates in each of the three groups of plants for 1928 and 1929.

EMPLOYMENT AND ACCIDENTS AT METALLURGICAL PLANTS IN THE UNITED STATES, 1928 AND 1929

	Men en		Mer	killed	Men injured		
Group and year	Actual number	Equivalent in 300-day workers	Average days active	Num- ber	Rate per 1,000 300-day workers	Number	Rate per 1,000 300-day workers
Ore-dressing plants:	11, 758	12, 357	315	15	1, 21	1, 437	116, 29
1929	13, 721	14, 266	312	17	1.19	1,460	102. 34
1928	20, 393	24, 310	358 358	18 19	.74	1,906	78. 40
1929 Auxiliary works:	18, 603	22, 222	358	19	.86	1,679	75. 56
1928	13, 544	16, 001	354 340	11	.69	1,311	81. 93
1929	15, 075	17, 099	340	7	.41	1, 436	83, 98

<sup>&</sup>lt;sup>1</sup> United States. Department of Commerce. Bureau of Mines. Technical paper 503: Accidents at metallurgical works in the United States during the calendar year 1929, by William W. Adams. Washington, 1931.

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# COOPERATION

### Directory of Consumers' Cooperative Societies

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THE Bureau of Labor Statistics has just issued, in mimeographed form, a list of 1,800 consumers' cooperative societies in the United States. It includes store societies, bakeries, consumers' creamery organizations, coal yards, gasoline filling stations, restaurants, hotels, rooming and boarding houses, housing societies, insurance associations, garages, laundries, burial associations, wholesale societies, etc., together with a key to show in just what line of busi-

ness the society engages.

The list is not complete, as there are doubtless many societies of whose existence the bureau is not aware. Likewise it does not include a number of societies which requested that their names be omitted. As the bureau has had no opportunity since early in 1930 to revise the entire list, it is likely that it includes some societies which have discontinued operations since that time. The bureau will appreciate being informed of any active societies not given here, as well as of any that have gone out of business.

Copies of the directory may be obtained on application to the bureau.

# Establishment of First International Cooperative Factory

THE first step in cooperative production on an international basis was taken recently when a factory was opened up for the manufacture of electric-light bulbs. Cooperative Information (Geneva), No. 15 (128), 1931, contains a description of this enterprise. The factory was set up in opposition to an international trust, or

"cartel," which controlled the market in a number of countries and whose price policies were considered arbitrary and oppressive.

With the Swedish Cooperative Union taking the initiative, the cooperative factory, occupying an area of 43,000 square meters, was built just outside Stockholm. The demand for the product soon outran the capacity, and an addition to the plant is now being planned.

Since the erection of the factory, the trust's price has fallen in successive stages from 1.35 kronor to 0.85 krona, the price of the

cooperative lamp—a total drop of 37 per cent.

Although the Swedish Cooperative Union was the prime mover in the new enterprise and furnished much of the capital, the factory is owned by an international association called Kooperativa Luma-förbundet, membership in which is open to the organized consumers' cooperative movement of any country. The present membership includes the central cooperative unions of Sweden, Denmark, and Norway, and both the cooperative wholesale societies of Finland.

# LABOR LAWS AND COURT DECISIONS

### Railroad Held Not Liable for Injury Caused by Porter Handling Mail Sacks

THE work of handling mails, done by men furnished by railroads under postal regulations, is Government work and the railroads are relieved from liability for injury caused by employees while engaged in such work, according to the decision of the United States Supreme Court in the case of Denton v. Yazoo & M. V. R. Co. et al. (52 Sup.

Ct. 141).

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Jesse H. Denton, a United States railway postal clerk, sustained an injury due to the alleged negligence of one Hunter, a porter in the general service of the Yazoo & Mississippi Valley Railroad Co. and the Illinois Central Railroad Co. At the time of the injury Hunter was loading United States mail into a mail car, under the direction of a United States postal transfer clerk, and was not, while engaged in such work, under the direction or control of either of the railroad companies. The work was done as required by statute (39 Stat. 412) and the railroad companies furnished the men necessary to handle the mail.

Denton brought action in a Mississippi court to recover damages against Hunter and the two railroad companies, and a judgment was entered against all three defendants. The Mississippi Supreme Court, however, reversed the judgment as to the railroad companies on the ground that "what Hunter was doing at the time of his alleged negligent act was not for them but for the United States." Thereupon the case was carried to the United States Supreme Court for review.

Mr. Justice Sutherland, in rendering the opinion for the court, laid down the following for determining whether the railroad companies were liable:

Whether the railroad companies may be held liable for Hunter's act depends not upon the fact that he was their servant generally, but upon whether the work which he was doing at the time was their work or that of another; a question determined, usually at least, by ascertaining under whose authority and command the work was being done. When one person puts his servant at the disposal and under the control of another for the performance of a particular service for the latter, the servant, in respect of his acts in that service, is to be dealt with as the servant of the latter and not of the former. This rule is elementary and finds support in a large number of decisions.

The prior decision of the court in Standard Oil Co. v. Anderson (29 Sup. Ct. 252; 212 U. S. 215) was discussed and quoted in part and the case of Driscoll v. Towle (63 N. E. 922), relied on to sustain the judgment of the lower court, was also discussed. The court, however, found "the facts of the present case require a different conclusion," and in affirming the judgment of the Mississippi Supreme Court relieving the railroad companies from liability, said, in part, as follows:

The statutory obligation imposed upon the railroad carriers is simply to transport mail offered for transportation by the United States. They are not required to handle, load, or receive mail matter, but only to furnish the men necessary for

those purposes. The men so furnished handle the mails and load them into, and receive them from, the railway post-office cars, as the regulation prescribes, "under the direction of the transfer clerk, or clerk in charge of the car." The work they do is that of the Government.

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### New York Provision as to Determination of Fact by State Board Upheld

THE United States Supreme Court in a memorandum decision on January 18, 1932, affirmed a judgment of the appellate division of the Supreme Court of the State of New York involving the validity of section 20 of the New York workmen's compensation law, which provides that the determination of the State industrial board on questions of fact shall be final. (Dahlstrom Metallic Door Co. et al. v. Industrial Board of the State of New York, 52 Sup. Ct. 202.)

The decision in this case is of far-reaching importance because in addition to New York, the statutes of several other States, particularly California, Idaho, Oklahoma, and Utah, have similar provisions

in their workmen's compensation laws.

The United States Supreme Court affirmed the New York Court of Appeals without a written opinion, basing the judgment upon two former cases decided by the United States Supreme Court, namely, New York Central Railroad Co. v. White, 243 U.S. 188, and Mountain

Timber Co. v. Washington, 243 U.S. 219.1

Section 20 of the New York workmen's compensation act was attacked on the ground that the failure to provide for a judicial review of the facts denied due process of law in violation of the fourteenth amendment to the Federal Constitution. It was contended that the industrial board is an administrative or executive tribunal, and that "there is no rule for absolute finality of executive determination" in support of a claim that the employer was entitled under the Federal Constitution to a judicial review of the facts in a case brought before the industrial board. The State, on the other hand, argued that, under the New York compensation law and by construction placed upon the act by the various New York courts, adequate protection was afforded in proceedings before the industrial board and by judicial review in the courts. The State also contended that the United States Supreme Court in the New York Central case previously had determined the validity of the provisions of the New York law.

The attorney general of New York, in commenting upon the stand

The attorney general of New York, in commenting upon the stand taken by the United States Supreme Court, said that if the section of the New York law had been declared unconstitutional it would have resulted in disastrous consequences. "In the first place," he said, that "appeals which are now handled expeditiously would be congested, inasmuch as in each case the appellate courts would be required to consider the weight of the evidence," and thereby would throw open the entire record taken before the referee in any compen-

sation hearing. Continuing, he said:

At the present time the number of such appeals is so vast that were the court to consider the complete record in each case it would result in interminable delay in the calendar. Consequently, awards made to injured persons would be held up with the no inconceivable result that such persons or their dependents in many instances would become public charges. Again, it would be necessary to increase

<sup>1</sup> U. S. Bureau of Labor Statistics Bul, No. 224, pp. 232, and 252.

the number of the judges to handle these appeals, with the result that the cost of administering the workmen's compensation act would be vastly increased, throwing an increased burden on the State.

The decision is of additional interest because the workmen's compensation laws

of several other States contain similar provisions.2

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### Constitutionality of Federal Longshoremen's and Harbor Workers' Compensation Act Upheld

THE United States Supreme Court on February 23, 1932, in the case of Crowell v. Benson, upheld the validity of the Federal longshoremen's and harbor workers' compensation act, and the right

of Congress to enact the legislation. (284 U.S.—.)

In construing the law to be valid, the Supreme Court ruled that the question as to whether the relation of master and servant existed is one in which a district court of the United States may determine in a suit to set aside an award made by a deputy commissioner. This was also true, the court said, in determining whether the injury occurred on a navigable water of the United States.

The original action in the case was brought in the United States District Court of the Fifth Circuit to enjoin the enforcement of an award made by a deputy commissioner of the United States Employees' Compensation Commission of the seventh compensation district in favor of J. B. Knudsen against his employer, Charles Benson. The award was made under the Federal longshoremen's and harbor workers' compensation act (44 Stat. 1424, ch. 509), March 4, 1927.

The deputy commissioner found that Knudsen was injured while in the employ of Benson, and while performing services upon the navigable waters of the United States. It was the contention of the employer that the award by the deputy commissioner was contrary to law because Knudsen was not, at the time of the injury, one of his employees, and that the claim was not under the jurisdiction of the deputy commissioner. Later it was charged that the compensation act was unconstitutional in that it violated several provisions of the United States Constitution—i. e., those relating to due process, right of trial by jury, unreasonable search and seizure, and a provision (Article III) respecting the judicial power of the United States.

The judge of the district court denied a motion to dismiss the case and granted a new hearing upon the facts and the law, and expressed in the opinion that the act would be invalid if not construed to permit such a hearing. The case was subsequently transferred to the admiralty side of the court. The district court held that Knudsen was not in the employ of Benson and restrained the enforcement of the award. (33 Fed. (2d) 137, and 38 Fed. (2d) 306.) Upon appeal the decree was affirmed (45 Fed. (2d) 66) by the circuit court of appeals

for the fifth circuit.

The United States Supreme Court later consented to review the case. In the majority opinion written by Mr. Chief Justice Hughes it was stated that the question of the validity of the law may be considered in relation to its provisions defining substantive rights and procedural requirements. The court stated that the act had two fundamental limitations, first, it deals exclusively with compensation

<sup>&</sup>lt;sup>2</sup> The United States Daily, Jan. 21, 1932, p. 7.

in respect of disability or death resulting from an injury occurring upon the navigable waters of the United States and secondly, that it

applies only when the relation of master and servant exists.

The court recited several provisions of the law—defining the words "injury" and "employer," the exclusiveness of the liability of the employer, and the penalty for failure to provide security in the payment of compensation. As the act relates solely to injuries occurring upon the navigable waters of the United States, the court said, it deals with the maritime law as applicable to matters falling within the admiralty and maritime jurisdiction, and "the general authority of the Congress to alter or revise the maritime law which shall prevail

throughout the country is beyond dispute."

In defining substantive rights the court pointed out that the act "provides for recovery in absence of fault, classifies disabilities resulting from injuries, fixes the range of compensation in case of disability or death and designates the classes of beneficiaries." There appears to be no room, the court said, for objections on constitutional grounds to the creation of the right of the Federal power to alter and revise the maritime law, unless it can be found in the "due process clause of the fifth amendment." However, it can not be said that either the classifications of the statute or the extent of compensation provided are unreasonable. "Liability without fault is not unknown to the maritime law," the court continued and "apart from this fact, considerations are applicable to the substantive provisions of this legislation with respect to the relation of master and servant similar to those which this court has found sufficient to sustain workmen's compensation laws of the States against objections under the due process clause of the fourteenth amendment.

The court referred to the objections to the procedural requirements of the act which relate to the extent of the administrative authority conferred, and reviewed the provisions relating to the administration of the act which authorized the establishment of compensation districts, the appointment of deputy commissioners, and the authority

to make regulations, etc.

The objection raised by the respondent as to the right of a trial by jury was unavailing, the court said, since the "claims which are subject to the provisions of the act are governed by the maritime law as established by the Congress and are within the admiralty jurisdiction." The court then took up the other objections, namely, the procedure which invokes the due process clause and the provision as to the judicial power of the United States.

As to questions of law, the court said, the rulings of the deputy commissioner are without finality. Under the due process clause of the fifth amendment, the question raised was as "to the deter-

mination of questions of fact."

On this point the court said that-

Apart from cases involving constitutional rights to be appropriately enforced by proceedings in court, there can be no doubt that the act contemplates that as to questions of fact, arising with respect to injuries to employees within the purview of the act, the findings of the deputy commissioner, supported by evidence and within the scope of his authority, shall be final. To hold otherwise would be to defeat the obvious purpose of the legislation to furnish a prompt, continuous, expert, and inexpensive method for dealing with a class of questions of fact which are peculiarly suited to examination and determination by an administrative agency specially assigned to that task. The object is to secure within the prescribed limits of the employer's liability an immediate investigation and a sound

practical judgment, and the efficacy of the plan depends upon the finality of the determinations of fact with respect to the circumstances, nature, extent, and consequences of the employee's injuries and the amount of compensation that should be awarded. And this finality may also be regarded as extending to the determination of the question of fact whether the injury "was occasioned solely by the intoxication of the employee or by the willful intention of the employee to injure or kill himself or another." While the exclusion of compensation in such cases is found in what are called "coverage" provisions of the act (sec. 3), the question of fact still belongs to the contemplated routine of administration, for the case is one of employment within the scope of the act and the cause of the injury sustained by the employee as well as its character and effect must be ascertained in applying the provisions for compensation. The use of the administrative method for these purposes, assuming due notice, proper opportunity to be heard, and that findings are based upon evidence, falls easily within the principle of the decisions sustaining similar procedure against objections under the due process clauses of the fifth and fourteenth amendments.

Mr. Chief Justice Hughes referred to the contention based upon the judicial power of the United States (Article III) and said that it presented "a distinct question." However, the present case, he said, "is one of private right, that is, of the liability of one individual to another under the law as defined." There is no requirement, it was held, that "in order to maintain the essential attributes of the judicial power, all determinations of fact in constitutional courts shall be made by judges."

In deciding whether the Congress, in enacting the statute under review, has exceeded the limits of its authority to prescribe procedure in cases of injury upon navigable waters, regard must be had, as in other cases where constitutional limits are invoked, not to mere matters of form but to the substance of what is required. The statute has a limited application, being confined to the relation of master and servant, and the method of determining the questions of fact, which arise in the routine of making compensation awards to employees under the act, is necessary to its effective enforcement. The act itself, where it applies, establishes the measure of the employer's liability, thus leaving open for determination the questions of fact as to the circumstances, nature, extent, and consequences of the injuries sustained by the employee for which compensation is to be made in accordance with the prescribed standards. Findings of fact by the deputy commissioner upon such questions are closely analogous to the findings of the amount of damages, that are made according to familiar practice by commissioners or assessors, and the reservation of full authority to the court to deal with matters of law provides for the appropriate exercise of the judicial function in this class of cases. For the purposes stated, we are unable to find any constitutional obstacle to the action of the Congress in availing itself of a method shown by experience to be essential in order to apply its standards to the thousands of cases involved, thus relieving the courts of a most serious burden while preserving their complete authority to insure the proper application of the law.

The court pointed out that, so far, only the claims of employees within the meaning of the act had been considered. A different question is presented where the fact determinations are fundamental or jurisdictional, "in the sense that their existence is a condition precedent to the operation of the statutory scheme." The fundamental requirements are "that the injury occurs upon the navigable waters of the United States and that the relation of master and servant exists." These conditions are essential because "Congress has so provided explicitly," and because the power of Congress to enact such legislation "turns upon the existence of these conditions."

Regarding the question of whether Congress may substitute for constitutional courts an administrative agency, Mr. Chief Justice

Hughes pointed out that—

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The recognition of the utility and convenience of administrative agencies for the investigation and finding of facts within their proper province, and the support of their authorized action, does not require the conclusion that there is no limitation of their use, and that the Congress could completely oust the courts of all determinations of fact by vesting the authority to make them with finality in its own instrumentalities or in the Executive Department. That would be to sap the judicial power as it exists under the Federal Constitution, and to establish a government of a bureaucratic character alien to our system, wherever fundamental rights depend, as not infrequently they do depend, upon the facts, and finality as to facts becomes in effect finality in law.

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Whenever the validity of any act of Congress is questioned and doubt is raised as to its constitutionality, the majority opinion showed that—

It is a cardinal principle that this court will first ascertain whether a construction of the statute is fairly possible by which the question may be avoided. We are of the opinion that such a construction is permissible and should be adopted in the instant case. The Congress has not expressly provided that the determinations by the deputy commissioner of the fundamental or jurisdictional facts as to the locality of the injury and the existence of the relation of master and servant shall be final. The finality of such determinations of the deputy commissioner is predicated primarily upon the provision (sec. 19 (a)) that he "shall have full power and authority to hear and determine all questions in respect of such claim." But "such claim" is the claim for compensation under the act and by its explicit provisions is that of an "employee," as defined in the act, against his "employer." The fact of employment is an essential condition precedent to the right to make the claim.

It was pointed out that the question in the present case was not whether the deputy commissioner acted improperly, "but whether he has acted in a case to which the statute is inapplicable."

By providing for injunction proceedings, the Congress evidently contemplated a suit as in equity, and in such a suit the complainant would have full opportunity to plead and prove either that the injury did not occur upon the navigable waters of the United States or that the relation of master and servant did not exist, and hence that the case lay outside the purview of the statute. As the question is one of the constitutional authority of the deputy commissioner as an administrative agency, the court is under no obligation to give weight to his proceedings pending the determination of that question. If the court finds that the facts existed which gave the deputy commissioner jurisdiction to pass upon the claim for compensation, the injunction will be denied in so far as these fundamental questions are concerned; if, on the contrary the court is satisfied that the deputy commissioner had no jurisdiction of the proceedings before him, that determination will deprive them of their effectiveness for any purpose. We think that the essential independence of the exercise of the judicial power of the United States in the enforcement of constitutional rights requires that the Federal court should determine such an issue upon its own record and the facts elicited before it:

The court concluded the opinion by stating that the district court did not err in permitting a new trial "on the issue of employment."

Upon that issue the witnesses who had testified before the deputy commissioner and other witnesses were heard by the district court. The writ of certiorari was not granted to review the particular facts but to pass upon the question of principle. With respect to the facts, the two courts below are in accord, and we find no reason to disturb their decision.

The decree of the lower court was therefore affirmed.

Mr. Justice Brandeis delivered a dissenting opinion, in which Mr. Justices Stone and Roberts joined, holding that the decree should be reversed because Congress did not authorize a new trial. The initial question is one of construction of the longshoremen's act. The act, the dissenting opinion stated, "does not in terms declare whether there may be a trial de novo either as to the issue whether the relation of employer and employee existed at the time of the injury, or as to any other issue, tried or triable, before the deputy commissioner."

Cases were cited showing that lower Federal courts had uniformly held that "the review afforded must be upon the record made before the deputy commissioner; and that the deputy commissioner's findings of fact must be accepted as conclusive if supported by evidence, unless there was some irregularity in the proceeding before him." The dissenting opinion pointed out that nearly all of the State courts have construed the State workmen's compensation laws as limiting the review by the courts to questions of law only, and even in other Federal laws similar to the question involved in this case, creating administrative agencies, "have likewise been treated as not conferring the right to a judicial trial de novo."

It was the aim of Congress clearly specified by the provisions of the act "to expedite the relief afforded." The dissenting opinion stated other reasons for objecting to the majority opinion and con-

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To permit a contest de novo in the district court of an issue tried, or triable, before the deputy commissioner will, I fear, gravely hamper the effective administration of the act. The prestige of the deputy commissioner will necessarily be lessened by the opportunity of relitigating facts in the courts. The number of controverted cases may be largely increased. Persistence in controversy will be encouraged. And since the advantage of prolonged litigation lies with the party able to bear heavy expenses the purpose of the act will be in part defeated.

### Illinois Prevailing-Wage Law Declared Unconstitutional

THE Legislature of Illinois enacted, during the 1931 session, a law regulating the wages and hours of work of mechanics and laborers employed under contracts for public works. This law was approved by the governor of the State on June 20, 1931, and became effective on

July 1 of the same year.

On September 2, 1931, one Harry A. Mayhew, filed a bill as a citizen and taxpayer against the governor of the State and several other public officers to enjoin them from entering into a contract for the improvement of a section of a State highway. Approximately two weeks later another citizen and taxpayer by the name of Pigott filed another bill in the same court requesting the director of public works to be enjoined from entering into a contract with a road contractor for the construction of a section of a State highway in Cook County. Injunctions in both cases were asked upon the ground that the law was unconstitutional.

The circuit court of Sangamon County held that the act was unconstitutional and granted the relief that was sought by the taxpayers. The case was immediately appealed to the Supreme Court of Illinois and this court, in an opinion written by Judge De Young, affirmed the decision of the lower court. (Mayhew v. Nelson and Pigott v. Department of Public Works and Buildings, 178 N. E. 921.) The attorney general, who represented the State officers, contended that the act was a valid exercise of the legislative power, that the law was complete and certain in its provisions and therefore was capable of enforcement. The taxpayers on the other hand contended that the law was vague, uncertain in its terms, incomplete and defective in its provisions, that it was difficult of enforcement, and therefore invalid. They also contended that the act was a violation of the constitution in that it delegated absolute or unlimited and arbitrary

powers to an administrative officer; deprived the taxpayers of the State of property without due process of law; and abridged the right

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of contractors to enter into contracts.

The supreme court in rendering its opinion declared that it would be necessary only to consider the contention that the act was void because of incompleteness and uncertainty, and that it delegated arbitrary power in violation of the constitution. The court said that when a law left the legislature it "must be complete in all its terms and conditions so that every person may know by reading the law what his rights are and how it will operate when put into execution." The court, quoting from a former Illinois case (People v. Rogier, 326 Ill. 310, 157 N. E. 177), declared that a law "which is so vague, indefinite, and uncertain that the courts are unable, by accepted rules of construction, to determine with any reasonable degree of certainty what the legislature intended, or which is so incomplete or conflicting and inconsistent in its provisions that it can not be executed, will be declared to be inoperative and void." After declaring the primary purpose of the act the court declared:

The act not only prescribes no test or standard by which the prevailing rates of wages in a particular jurisdiction may be ascertained but when an improvement extending from one subdivision of the State or municipality into or through another or dividing them is contemplated, no guide is offered by which the applicable rate or rates of wages may be determined.

The court took up the question of adjustments in cases of disputes arising under the prevailing rates of wages and reviewed the various methods of appeal in such cases. The procedure before the various boards, the court said, was considered wholly conjectural, for the act omits "to provide when and where such boards shall meet, whether they shall conduct hearings at which parties interested in the subject matter may appear, whether the attendance of witnesses may be compelled, and whether a record of the proceedings shall be kept."

The law in addition to the provision relative to the payment of prevailing wage rate also limits the hours of work during any one calendar day to eight hours. Numerous exceptions, as in the case of extraordinary emergency caused by fire, flood, danger to life or property, etc., are set forth in the law. The court said that these exceptions would give rise to differences of opinion whether a contractor may avail himself of one or of many. Without considering other objections to the act, the Supreme Court of Illinois concluded it was sufficiently shown that the act was "not only uncertain and indefinite in its provisions, but that it is also incomplete and delegates legislative powers by allowing administrative officers to supply many of its substantial features. Accepted rules of construction applied to certain sections will not avail to disclose the legislative intent, and courts are powerless to supply the omissions of the act. No person, by reading the act, will know with a reasonable degree of certainty what rights it confers and what duties or obligations it imposes."

The act was therefore declared void.

### Member of Religious Order Denied Claim Under Workmen's Compensation Law

THE Supreme Court of the State of Michigan, in a 6-to-2 opinion, declared that one injured while performing duties as a probationer, intending to qualify for admission to membership in a religious order, was not entitled to workmen's compensation. (Blust v. Sisters of Mercy et al., 239 N. W. 401.)

It appeared that Loretta Blust was injured while cleaning the drum of a laundry mangle at Mount Mercy Academy in Grand Rapids on November 16, 1929. She presented a claim against the institution and against the Hartford Accident & Indemnity Co. for compensation.

The matter came up for a hearing before a deputy commissioner of the Michigan Department of Labor and Industry, and an award was entered in favor of the petitioner. The insurance company appealed from the award of the deputy commissioner to the department of labor and industry, and upon a final hearing the award of the deputy commissioner was reversed and the claim of compensation was denied.

The case was thereupon appealed to the supreme court of the State. The main question involved was whether the petitioner was an employee within the meaning of the Michigan workmen's compensa-The contention of the insurance company was that, in order to recover under the compensation law the injury must "arise out of and in the course of an employment"; that the relation of employer and employee and a contract must be involved; and that the only basis of such a contract, either expressed or implied, would be the relation of employer and employee. Mr. Justice Potter, in a written opinion in which Mr. Chief Justice Butzel concurred reversed the award of the department of labor and industry and held that the facts of the case disclosed the relationship of master and servant. In support of this conclusion several cases were reviewed, one in particular in which a question arose whether a student brakeman was a railroad employee. (Atchison, Topeka & Santa Fe Ry. Co. v. Fronk, 87 Pac. 698.) Against the opinion of Mr. Justice Potter six other judges of the supreme court took exception and, in an opinion written by Mr. Justice Wiest, affirmed the decision of the department of labor and industry.

Mr. Justice Wiest pointed out that the plaintiff in the case had joined the Sisters of Mercy, an established charitable organization, as a probationer intending to qualify for admission to membership in the order. The various stages of noviceship were recited and it was shown that "her relation as a novitiate was that of free-will devotion of efforts and talents to the religious and charitable purposes of the order." According to the rules of the order she was to receive instruction calculated to qualify her for various services upon reaching full membership and was to be provided suitable care, food, clothing, and shelter, but was to receive no remuneration for such services. Upon receiving injuries which rendered her totally disabled, the order cared for her, met all expenses which according to the rules it was bound to do, and there was no interruption of her relation to the order during the incapacitated period. Mr. Justice

Wiest said as follows:

I find no analogy between instances of work without pay in industrial and professional pursuits, in order to qualify for work with pay, and an instance of

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entering a charitable and religious order as a novitiate with intent to qualify for membership and a life devoid of pecuniary purpose. In the one instance there is the relation of master and servant and a semblance of hiring, though without wage, but with commercial earmarks, while in the other there is no relation of master and servant, no hiring, and no commercialism, but a devotion to charitable purpose without hope of pecuniary reward.

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Although it was shown and determined that the Sisters of Mercy had employees for hire and had even elected to come under the Michigan workmen's compensation law, members of the order and novitiates were not covered and the insurance company did not indemnify the society for the expense of caring for any injured members or novitiates. The court pointed out that the workmen's compensation law requires the relation of employer and employee under a contract of hire. In this case it was pointed out there was no hiring and "it would be unfortunate to hold that the Sisters of Mercy hire persons to submit to training for membership in the sisterhood. The work of the Sisters of Mercy, in the care of indigent and other sick and infirm persons, and in no manner, directly or indirectly, for private profit, constitutes a public charity. The compensation law allows nothing for pain and suffering."

In the testimony brought out at the trial it was shown that, even though an award were made, such would not come to the injured probationer but would belong to the order by virtue of her relationship to it. Regarding this the court said:

Neither at common law nor under the compensation act can plaintiff have remedy against the Sisters of Mercy. It would be a strange situation, indeed, to permit the Sisters of Mercy, one defendant herein, to reimburse itself for expenses, incurred in caring for a novitiate, in the manner here attempted. Plaintiff has no interest in any recovery of an award. She recognizes that her interest in an award is only that of the Sisters of Mercy.

In concluding the court inquired, "If a novitiate is held to be an employee and the Sisters of Mercy an employer, then what is the contract of hire?" It can not be stated, the court said, "for there is none."

## Law Establishing Wage-Claims Court in Colorado

THE 1931 legislature of the State of Colorado enacted a law establishing a wage-claims court in each county of the State (ch. 170, Laws of 1931). The wage-claims court is administered by the justice of the peace in each county and exercises jurisdiction in all cases of claims of money due for labor performed upon any contract of employment where the amount claimed does not exceed \$100.

About 13 States have small-claims courts exercising jurisdiction over the collection of small wage claims. These States are: Arizona, California, Connecticut, Kansas (small debtors' court), Maryland (people's court), Massachusetts, Minnesota (conciliation courts), Nevada, New Jersey, New York (municipal courts and certain other special courts), Oregon, South Dakota, and Washington.<sup>1</sup>

The majority of the States have some form of wage-payment legislation, consisting usually of a requirement that the wages must be paid within a certain number of days, and providing a penalty for failure to comply with the law. The various labor officials in the States have

<sup>&</sup>lt;sup>1</sup> Report of the standing committee on legal aid work to the American Bar Association, May, 1930. But see also Iowa law (ch. 478, secs. 10820-10824, Code, 1924), Labor Review, November, 1928, pp. 38-40.

used these statutes as a basis for wage adjustment and some of the laws carry a provision conferring upon the State labor department or bureau, as the case may be, the power to secure collection. However, if they fail to adjust the matter with the employer, legal action is necessary for collection and in many instances the department has no authorization to enforce collection by legal action and the employee

is usually unable to bear the costs of such procedure.

Several legislative attempts have been made by the States to overcome this difficulty, by incorporating provisions which give the privilege of recovering attorneys' fees in suits for wages without regard to the establishment of claims.2 Such laws have been condemned by the courts of last resort as being unlawful discrimination in favor of certain suitors who are not distinguishable from other litigants on any proper basis, the law being, therefore, subject to condemnation as special or class legislation. (Gulf, etc., R. Co. v. Ellis, 165 U. S. 150; Coal Co. v. Rosser, 41 N. E. 263; Chicago, etc., R. Co. v. Mashore, 96

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The courts are not uniform, however, in their ruling on this question,  $_{
m some}$  courts holding that such fees were taxed not as a penalty but as a fair award of costs. (Title Guarantee & Trust Co. v. Wrenn, 56 Pac. 271; Singer Mfg. Co. v. Fleming, 58 N. W. 226; Vogel v. Pekoc, 42 N. E. 386.) Several of the State legislatures, realizing that the costs and delays of legal procedure are unduly burdensome, have made special provisions to cover the cost. One State 3 has established a trust fund, known as a contingent fund of the labor commissioner, to be used in paying costs in wage-claim proceedings. This fund is replenished by the claimant's placing in the fund a reasonable per cent of the amount recovered. Various methods are used by other States, but in many States much more might be accomplished along this line under improved legislation. The need, as pronounced several years ago by the late Chief Justice William H. Taft, is that "something must be devised by which everyone, however lowly and however poor, however unable by his means to employ a lawyer and to pay court costs, shall be furnished the opportunity to set this fixed machinery of justice going." 4

The text of the new Colorado wage-claims court act is given below:

#### **ACTS OF 1931**

#### Chapter 170.—Wage-claims court

Section 1. Wage-claims court established.—There is hereby created and established in each of the several counties of this State, a court of inferior jurisdiction, to be known as the "Wage-claims court." The justices of the peace in their several counties and precincts shall sit as judges of said courts, and exercise the jurisdiction hereby conferred, in all cases arising under the provisions of this act.

Sec. 2. Jurisdiction.—The wage-claims court shall have and exercise jurisdiction in all cases of claims of money due for wages or salary earned, or for work and labor performed, upon any contract of employment, express or implied, where the amount claimed, exclusive of interest and costs, does not exceed the sum of \$100. All actions arising under the provisions of this act shall be brought in the county where the defendant resides, or where the work or labor, or some part thereof, was performed: *Provided*, That no action shall be brought in said court by the assignee of any such claim, or upon an assigned claim.

Sec. 3. Procedure.—[This section covers the procedure and prescribes the forms to be used in affidavit of claim and order of appearance. A docket fee of \$1 is

charged, which covers all the costs in the justice of the peace court.]

Ohlo Rev. Stat., sec. 6563a; Oklahoma, Acts of 1895, ch. 51; Texas, act of April 5, 1889.
 Nevada, Acts of 1915, ch. 203 (as amended by Acts of 1925, ch. 95).
 Bureau of Labor Statistics Bul. No. 398: Growth of legal-aid work in the United States, p. iii.

SEC. 4. Service.—A true copy of the affidavit and order mentioned in the preceding section may be served upon the defendant personally by the justice of the peace, by the plaintiff, or by any constable of the county, who shall make an affi-

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davit of such service, stating the time and place thereof.

SEC. 5. Hearing.—Upon the day set for the hearing of the said claim, if the defendant fail to appear at the time and place stated in said order, he having been duly served therewith, as provided in the preceding section, the judge shall enter judgment for the amount proven to be due the plaintiff, together with interest at the rate of 8 per cent per annum from the time said claim became due, and for If both parties appear, the judge shall hear their testimony, and such other witnesses as they shall produce, together with such other evidence as may be offered in support of the respective claims of the parties, and shall enter such judgment as the justice of the case shall require: Provided, That interest and costs shall be allowed in all cases where the judgment is for the plaintiff. No continuance shall be granted or allowed in such court except for good cause shown. No formal pleading other than the affidavit and order herein provided for shall be necessary, and the hearings in such court shall be informal, with the sole

object of dispensing speedy justice between the parties.

Sec. 6. Appeal.—If the judgment be against the defendant he shall pay the same forthwith, and in default of such payment, execution may issue as in the If either party be dissatisfied, he shall be allowed an appeal to justice courts. the county court of the proper county: Provided, That he shall upon the entry of judgment against him, then and there give notice of appeal to the county court, and pay to the justice of the peace the sum of \$1.50 to cover the cost of a transcript of such judgment, and shall within 5 days from the entry of such judgment pay to the clerk of the county court, in cash, an amount sufficient to pay said judgment in full, together with all costs in the county court, and shall within 5 days after docketing said cause in the county court, give notice to the plaintiff that he will within 48 hours from the service of such notice, appear in the county

court and ask that the said cause be set for trial.

Upon the payment to the said justice of the peace of the cost of a transcript as aforesaid, the said justice shall forthwith make, certify, and transmit to the county court of the proper county a complete transcript of all the proceedings

before him.

Sec. 7. Appeals disposed of immediately.—It shall be the duty of the county court to dispose of all such appeals with all convenient speed, and if the defendant shall fail to docket said cause in the county court and to pay in the sums as provided in the preceding section, within the time therein provided, the county court shall dismiss said appeal. If the judgment in the county court shall be for the plaintiff, the court shall order the clerk to pay the amount thereof to the plaintiff. If the judgment of the county court be for the defendant, he shall have judgment for his costs.

Sec. 8. Fees.—After judgment the justice of the peace shall issue such process, and shall be entitled to collect such fees and charges as are allowed by law in

justice courts for like services, and no others.

Sec. 9. Supplies.—The board of county commissioners of each of the several counties in this State shall furnish to the justices of the peace a reasonable supply of blanks and forms, docket book, and other supplies necessary for the use of such justice when sitting as a wage-claims court.

# Inquiry into Applicability of Chinese Factory Act

HE practicability of enforcing the Chinese factory law which was passed in 1929 and which was to have become operative from February 1, 1931, is the subject of a study and report made by Ta

Chen, of Tsing Hua University, Peiping.2

Toward the close of January, 1931, the enforcement date of the act was postponed to August 1, 1931. Among the reasons that necessitated the delay was the fact that the original legislation did not provide for an inspectorate. During February, 1931, however, a

Labor Review, July, 1930, pp. 16-18, and May, 1931, pp. 73-74.
 Chen, Ta: Study of the applicability of the factory act of the Chinese Government, a preliminary survey of the Shanghai area. Shanghai, China Institute of Scientific Management, 1931.

measure was enacted providing authority for the creation of such an agency. Another influence in the postponement of the operation of the act was the statement of employers to the Government that the law was very wide in its scope and that it was essential for industry to have time to adapt itself to the requirements. At the conference on the "people's livelihood," held in February, 1931, under the auspices of the National Christian Council, representatives of employers of labor, of educators, social workers, and others discussed the act at considerable length. As an outcome of a resolution adopted at the conference, it was decided that an independent scientific investigation should be made as to the applicability of the law, and Ta Chen was invited to come from Peiping to undertake the study.

The author of the report recognizes that the law is to be applied nationally and that any study of it should be national in scope. However, in the brief period (2½ months) available before the date fixed for the law to go into effect it was not possible to devote close attention

to any other locality than the Shanghai district.

The findings of the survey concerning existing industrial practices, some of the principal requirements of the factory act, and the suggestions made by the investigator on the basis of his study are presented in the following table taken from his report:

PRESENT PRACTICE, REQUIREMENTS OF FACTORY ACT, AND SUGGESTIONS OF INVESTIGATOR ON BASIS OF SURVEY

Item	Present practice	What the act requires	Practice recommended on basis of study
Record keeping	In vogue, but up- on simple plan.	15 categories; full copies twice yearly.	15 items; annual sum- mary reports.
Hours of work per day	8 to 11.3 hours (average in 6 in- dustries).	8 hours; 10 hours with permit.	10 hours, for women and children only.
Hours of night work for— Women	Between 6 p. m. and 6 a. m.	None from 10 p. m. to 6 a. m.	Any 10 hours between 6 p. m. and 6 a. m., for
Children	do	None from 7 p. m. to	next 3 years. Do.
Overtime	No limit	6 a. m. 2 hours per day, up to 36 per month.	As in act.
Rest days	Average of 2.6 per month without pay; often not taken.	4 per month, with pay	2 per month, without pay; required to be taken.
National and festival holidays	Average of 14.4 days per year.	8 national holidays, with pay.	As in act.
Annual leave or vacation	Not regularly giv- en.	7 to 15 days with pay	Suspended indefinitely.
Age of admission of young workers.	9 to 10 years, 14 in some cotton mills.	14 years	12 years, by standard agreed upon.
Hours of work of young workers.		8 hours per day	10 per day or night, for 2 years; then 8 hours' work and 2 hours' education by day, and 10 hours at night until night shift is eliminated.
Workmen's compensation benefits for—	e odlase, sid	ributo abane e	navou.
Temporary disability	Commonly paid, no standard sum.	Two-thirds of wages for 6 months, then half of wages.	As in act.
Permanent disability Death	do	1 to 3 years' wages 2 years' wage, plus \$300 1	Do. Do.
Sickness	Sometimes paid		Payment for specified occupational diseases only.
Medical expenses  Funeral expenses	Commonly paid	Required, up to \$30 1	As in act.

<sup>1</sup> United States currency.

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PRESENT PRACTICE, REQUIREMENTS OF FACTORY ACT, AND SUGGESTION OF INVESTIGATOR ON BASIS OF SURVEY—Continued.

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Item	Present practice	What the act requires	Practice recommended on basis of study
Education	55 factories have provision.	10 hours a week up to 16 years of age.	As in act for those 12 to 15 years of age, after 2
Maternity bonus	Averages \$16.02 1 per case.	8 weeks' leave, with pay_	years. 4 weeks' leave to those employed 1 year, after 1 year.
Bonus	Common	Bonus or share of profit	Up to 4 per cent of annual wage.
Safety and health provisions	Inadequate in many factories.	Not sufficiently definite.	Clear, definite.
Wage payments	1 or 2 a month, fines deducted in advance at times.	2 a month—no deduc- tions in advance.	As in act.
Principles of wage determina- tion.	Supply and de- mand.	Cost of living in district.	Postponed for scientific investigation.
Contracts	Sometimes writ- ten.	Double pay in lieu of notice; or pay and a half for notice period; graduated notice; spec- ified reasons for dis- missal.	15 days' notice, or single pay in lieu of notice; suspension of other clauses.
Factory councils	Not found	With discussion func-	For discussion only.
Apprenticeship	Common, condi-	Contracts and fixed terms.	As in act.

<sup>&</sup>lt;sup>1</sup> United States currency.

### German Decree of December 8, 1931, Reducing Prices, Wages, Etc.<sup>1</sup>

THE emergency decree of December 8, 1931, undoubtedly represents the greatest encroachment ever made by the German Government upon the fundamentals of the economic system. Government justifies its action with the necessity of bringing the process of deflation to a sharp and definite end, in order to reduce production costs and thus enable German industry to compete on the world markets under the extraordinary difficulties placed by the majority of countries in the way of imports. It is intended that the shrinkage in the volume of production and consumption shall be overcome by a coercive reduction of costs in all phases of economic life, including prices, wages and salaries, rents, public-utility charges, and interest rates. On the other hand, it was necessary to open up new sources of income for the Government in the field of taxation in order to assure the balancing of fiscal budgets. Here the increase of the turnover tax from 0.85 to 2 per cent and a new cut in the pay of Government employees and laborers are the most important measures. A synopsis of the decree follows.

#### Price Reduction

Prices fixed by cartels, syndicates, or the wholesale trade, as is the case in the iron-producing industry, the iron and metal consuming industry, the building trades, the chemical, paper, glass, ceramic, textile and fertilizer industries, are, not later than January 1, 1932, to be reduced by at least 10 per cent, compared with the price level existing on June 30, 1931. If the Federal Minister of Economic Affairs considers a further reduction of prices for specific commodities

<sup>&</sup>lt;sup>1</sup> Report prepared by Wm. E. Beitz, American consul, Berlin.

essential, he is authorized to adopt appropriate measures within the scope which he considers advisable. If a cartel, syndicate, or whole-salers' organization fails to comply with statutory regulations or ministerial instructions, the pertinent provisions of the cartel or syndicate agreement or contracts for deliveries become inoperative from January 1, 1932. Prices of trade-marked commodities must be reduced from the same date and by the same percentage; also prices for potash and nitrogenous products.

The reduction of coal prices is regulated in a special manner, as the domestic coal market is organized by syndicates made compulsory by law. The prices of black coal and lignite are also to be lowered by 10 per cent not later than January 1, 1932. The syndicates and any wholesalers having exclusive sales rights in specific territories are no longer permitted to resort to punitive measures against retailers (such as refusal to sell or measures having similar prohibitive effects), or impose penalties upon retailers for undercutting prices fixed by agreement; neither can they restrict purchases by retailers of domestic coal.

It is estimated that about 25 per cent of Germany's total industrial turnover covers commodities the prices of which are fixed by cartels

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The reduction of open-market prices in the retail trade is assigned to a Federal price commissioner under the supervision of the Chancellor of the Reich. His duties consist in investigating and supervising charges for commodities and services considered of vital necessity (including gas, water, electricity, and transportation), margins of profits, and surcharges. The commissioner is vested with almost unlimited powers in reducing prices, if necessary, and for this purpose will be given extensive assistance by the Federal and State Governments.

#### Reduction of Interest Rates

Long-term loans.—Interest on long-term loans is reduced by about 25 per cent. The reduction applies to all long-term loans bearing nominally more than 6 per cent interest which are either registered in public books of record, or issued in the form of bonds; or any debts which do not mature until the expiration of one year from the date on which the debt was contracted. Rates between 6 and 8 per cent, inclusive, will be lowered to 6 per cent; higher rates up to and including 12 per cent will be reduced in the ratio of 8 to 6. If the rate is over 12 per cent the portion in excess thereof will be reduced in the ratio of 8 to 4. The reduction applies only to interest payable after January 1, 1932. It also affects interest on revaluated mortgages and bonds which was to be increased from 5 to 7½ per cent on January 1, 1932.

In order to prevent the sudden withdrawal of capital from the market, provision is made that creditors may not call loans of the above description before December 31, 1933. If a loan, according to an agreement already concluded, may not be called within a given period, this period is to be prolonged for two years but not beyond December 31, 1935. If the stipulated date of maturity falls after December 31, 1935, it is to remain in effect. Any other reservations made with regard to the calling of loans, however, shall be duly observed. If notice of the calling of a loan had already been served it remains

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effective. The debtor's right to give notice of the termination of a loan is not affected, nor are the remaining provisions concerning revaluated mortgages or bonds. The validity of paragraph 247 of the German civil code (suspended for several years) is restored, which provides that in case the interest rate is over 6 per cent, the debtor may after a lapse of 6 months give 6 months' notice of the termination of the debt.

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After December 31, 1931, the right to authorize the issuance of domestic mortgage debentures or other nonregistered bonds, which under paragraph 795 of the German civil code is subject to State authorization, will be reserved to the Federal Government which must obtain the consent of the respective State governments. In this manner the Federal Government will be able to control the movement in

interest rates for bonds of the above description.

Short-term loans.—The reduction of interest on short-term credits will be controlled by the Federal bank commissioner who is authorized to reduce the rates in agreement with the Reichsbank and the central associations of credit institutions (if by December 31, 1931, the latter associations have not come to an understanding with regard to the reduction of credit and debit interest rates and commissions). Any decisions reached by the associations are subject to the commissioner's approval and apply to all banks whether or not they are members of an association. The reduction of the Reichsbank discount rate from 8 to 7 per cent and of the collateral loan rate from 10 to 8 per cent, an action taken immediately upon the promulgation of the emergency decreee, was an important step forward in this direction. association of Berlin banks and bankers followed suit by lowering its debit interest rate from 10 to 8 per cent and its credit interest rate for call money from 5 to 4 per cent for accounts not liable to commission and from 6 to 5 per cent for accounts liable to commission, effective December 10, 1931.

## Abolition of Surcharges on Arrears in Taxes

Effective January 1, 1932, the surcharge (12 per cent per annum) collected on certain arrears in tax payments, which were introduced in July, 1931, will be abolished. From the same date interest charges on arrears in taxes (at present 24 per cent per annum) will be reduced to 12 per cent; interest for legally postponed customs payments, from 10 to 8 per cent; and the maximum charge for legally postponed tax payments, from 12 to 8 per cent.

# Housing and Rents

This section provides for the gradual abolition of the rental tax, the reduction of rents, and the further relaxation of housing control.

From April 1, 1935, the rental tax will be reduced by 25 per cent of the proceeds for the fiscal year 1932; from April 1, 1937, it will be reduced by a further 25 per cent; and after April 1, 1940, it will no longer be levied. Until March 31, 1934, the tax may be paid by the house owner in a lump sum amounting to 3 or 3½ times the total amount due for the year 1932, depending upon the date on which payment is made.

Rents for dwellings in so-called old buildings, those which were completed prior to July 1, 1918, are from January 1, 1932, to be

generally lowered by 10 per cent.

Rents for dwellings in new buildings, or those completed after July 1, 1918, are to be lowered in proportion to the savings involved by the reduction of interest on mortgages or debts resting on the property. It is believed that on this basis the rent will in many cases be reduced by more than 10 per cent.

### Forced Sales

THERE are a large number of measures to safeguard real-estate owners against the sale of their property at ruinous prices. The more

important features of these measures are as follows:

The offer of the highest bidder at an auction shall normally not be acceptable if it amounts to less than seven-tenths of the value of the property. The debtor who, on account of the economic crisis, is unable to meet his obligations shall have the right to apply for the suspension of a forced sale for a period not exceeding six months and for the institution of receivership; to avoid expensive administrative machinery in this connection the debtor himself may be appointed as receiver under official control.

Similar protection had previously been granted to farmers in eastern States under the eastern farm relief act. It is now extended to cover the whole of Germany and to apply to municipal as well as rural

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#### Miscellaneous Economic Measures

Tax reductions, to facilitate the decentralization of large combines which find it more and more difficult to cope with the present economic difficulties, vary according to the nature of the process of decentralization. They are restricted to joint-stock companies because of the severe publicity regulations to which stock companies are subjected under recent legislation. The tax reductions apply to the capital tax, the land-purchase tax, and trade-equipment tax. Communal or State surcharges to any of these taxes are forbidden.

Similar concessions are made with regard to the liquidation of companies, no matter whether they are joint-stock companies, limited-liability companies, or similar enterprises. In that case the company in liquidation shall be exempt entirely from the land-purchase tax, the increment-of-wealth tax, and income tax. The duration of these

provisions is limited until December 31, 1934.

Revised appraisement regulations are authorized. In view of the fact that the standard appraisement and assessment of the property tax as of January 1, 1931, under existing regulations, was to form the basis of assessment for various taxes on property for 3 or 6 years, as the case might be, the Government is authorized to revise the pertinent statutory regulations in such a manner as to adapt them to the changes n the value of property having occurred since January 1, 1931.

n the value of property having occurred since January 1, 1931.

A subsidy for industrial cooperatives is provided for. The Government is authorized to appropriate up to 20,000,000 marks <sup>2</sup> (\$4,760,000)

for financing the rationalization of industrial cooperatives.

<sup>&</sup>lt;sup>2</sup> Conversions into United States currency on basis of mark=23.8 cents.

### Social Insurance and Welfare

The decree authorizes a large number of economy measures in various branches of social insurance including the restriction of the children's allowance to a given age, the restriction or avoidance of overlapping in annuity payments, etc. The more sweeping measures are: The abolition of voluntary benefits in wage earners' old-age and invalidity insurance, and health insurance; restriction of benefits for survivors; and the discontinuance in workmen's compensation of annuity payments to persons who have lost less than one-fifth of their working capacity. By this latter provision the number of annuities under workmen's compensation will be reduced by about 400,000.

Labor Regulations

Wages and salaries in private enterprise regulated by standard wage agreements are to be adapted to the wage level of January, 1927 (the date which marked the beginning of the last business rise). The Federal Government believes that at that time a certain equilibrium was established in wages and salaries after the war, inflation and currency crisis, while the standard of living was higher than it is to-day (144.6 as against 131). Because a reduction of wages will in many cases amount to more than 10 per cent, it is provided that 10 per cent shall not be exceeded except in the few cases in which wages have not been reduced since July 1, 1931. In these exceptional cases the reduction shall not go beyond 15 per cent. The wage reductions must be agreed upon by employers and workers not later than December 19, 1931; if an understanding can not be reached, a binding decision shall be made by the arbitrator, with due regard to the special conditions of an individual industry, district, or group of enterprises.

The decree provides further that all standard wage agreements in effect on December 9, 1931, the date on which these provisions went into force, shall expire on April 30, 1932, unless they cover a protracted period or the parties to the agreement make a different arrangement with regard to the duration of the agreement after these provisions

have become effective.

It was proposed to make the introduction of a cut in wages dependent upon a prior general reduction in prices, but from the foregoing it appears that prices and wages are to be lowered simultaneously.

### Measures to Insure the Balancing of the Budgets

A NEW cut, effective until January 31, 1934, will be made as of January 1, 1932, in the pay of Government officials, salaried employees, and wage earners in Government service, amounting to 9 per cent of the basic pay in regard to officials and 10 per cent of the current standard wage provided by agreements relative to salaried employees and wage earners.

Effective January 1, 1932, the turnover tax will be increased from 0.85 to 2 per cent, except with respect to grain, flour, bran, bread, and

other bakers' commodities.

Supplementary to the Government's previous measures against capital "flight" abroad which, it is officially stated, proved satisfactory, a so-called "Federal flight tax" is assessed on German nationals or enterprises which have given up their residence or place

of general abode in Germany since March 31, 1931, or will do so by January 1, 1933. The rate of the tax is 25 per cent of the entire taxable property of the delinquent persons or enterprises. It is payable in the first case one month after the going into effect of the "Federal flight tax" and in the second case simultaneously with the relinquishment of the residence or place of general abode in Germany. If the tax is not paid, a warrant will be issued against the delinquent authorizing his arrest on his return to Germany and a term of imprisonment of not less than 3 months; his property located or invested in Germany will be attached as security; and a fine will be imposed. The tax, however, is to apply only to persons or enterprises with taxable property on January 1, 1928, or January 1, 1931, of more than 200,000 marks (\$47,600) and with a taxable income of more than 20,000 marks (\$4,760) during the current period of assessment or the two preceding ones. Delinquent persons having already emigrated may, under certain conditions, be exempt from the tax if they resume their abode in Germany.

# Legislation Regulating Hours of Work in the Spanish Zone of Morocco 1

THE legal 8-hour workday has been put into effect in the Spanish Zone of Morocco as a result of a legislative decree dated Septem-

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The legislation in question limits the hours of labor for all except certain specified classes of labor (such as domestic servants, hotel employees, etc.) to 8 per day and 48 per week. Provision is made for extension of working hours in certain emergencies and also under conditions agreed upon by employers and employees and approved by the Government authorities (Direction de Intervencion Civil). The percentages of increase of wages for overtime work are stipulated.

The employment of children of either sex under 12 years of age is prohibited, and on certain specified types of work their employment under the age of 16 is also prohibited. The hours of labor of children between the ages of 12 and 16, with certain exceptions, are limited

to 6 hours.

Night work is prohibited for women, and for children under 16. Special provisions of the law apply to expectant and nursing mothers.

Further provisions regulate the hours of midday rest and the sanitary conditions at places of employment. Vaccination certificates are to be required by employers in the case of women and minors.

Workers' wages are required to be paid not less frequently than twice a month, and salaries of office workers once a month, with pay-

ment in legal tender, either Spanish or Hassani pesetas.

Copies of the regulations must be posted in all workshops. Violations of the provisions are punishable by fines ranging from 5 to 500 pesetas, or in flagrant cases by the closing of the establishment of the offending employer for a period to be determined by the authorities.

<sup>&</sup>lt;sup>1</sup> Report from American Consulate General, Tangier, Morocco.

<sup>2</sup> Published in the Boletin Oficial de la Zona de Protectorado de Espana en Marruecos, No. 18, issue of Sept. 25, 1931.

# WORKMEN'S COMPENSATION

### **Recent Compensation Reports**

#### Oregon

THE financial report of the State Industrial Accident Commission of Oregon for the fiscal year ending June 30, 1931, shows an excess of disbursements over receipts for the year of \$7,805.27. Receipt of premiums by the State accident fund amounted to \$2,395,339.81 from the employers and \$299,412.41 from the workers, a total of \$2,694,752.22. Interest, penalties, and other receipts increased the amount to \$3,048,597.21.

Disbursements, totaling \$3,056,402.48, included payments for time loss, \$998,996.34; medical aid, \$759,051.68; pensions, \$726,819.05; burial expense, \$13,800; permanent partial disability, less than 24 months, \$207,902.98; physiotherapy, rehabilitation, etc., \$70,134.48;

administrative expense, \$279,697.95.

#### United States and District of Columbia

The fifteenth annual report of the United States Employees' Compensation Commission, for the fiscal year ending June 30, 1931, covers the operations of the three Federal workmen's compensation acts administered by the commission: United States employees' compensation act, approved September 7, 1916; longshoremen and harbor workers' compensation act, approved March 4, 1927; and District of Columbia workmen's compensation act, approved May 17, 1928.

# United States Employees

Compensation and medical care are provided under the United States employees' compensation act for civil employees suffering personal injuries while in the performance of their official duties and for dependents of those who died as a result of such injuries. The term "civil employees" has been defined by the commission to cover all employees of the Federal Government, including direct employees of the United States Shipping Board Merchant Fleet Corporation, the Inland Waterways Corporation, and employees engaged in work under certain cooperative agreements between the Federal Government and the States. It does not include "officers" of the Federal Government, such as United States attorneys, assistant attorneys or marshals, or commissioned medical officers of the Public Health Service, but the original law was later extended to cover officers and enlisted men of the Naval Reserve, and employees of the District of Columbia except members of the fire and police departments.

It is stated that the report of the Civil Service Commission shows a total of 608,915 employees in the executive civil service of the Government on December 31, 1930, but as this does not include all employees covered by the compensation law, the actual coverage is

unknown.

Reports were received during 1930 of 26,069 new injuries, an increase of 1.48 per cent over the number reported during 1929 (25,690). The number of claims on account of death or loss of wages was, however, reduced from 9,337 for 1929 to 9,283 for 1930, a decrease

of 0.58 per cent.

The number of cases closed during 1930 consisted of 320 fatal cases, 247 of which were approved while 73 were disapproved, and 26,764 disability cases, a total of 27,084 cases. The disability cases consisted of 280 cases involving permanent partial disability, 16,361 cases of temporary total disability causing loss of time, 8,678 cases in which the injury did not cause a loss in working time, and 1,445

cases disapproved by the commission.

Table 1 shows a summary of all nonfatal-injury cases closed, and all fatal cases acted upon by the commission during the calendar year 1930, together with a statement of the cost of medical care during the fiscal year ending June 30, 1930. The tabulation does not include expenditures in permanent disability cases on the rolls of the commission on December 31, 1930, except the cost of medical care included in the \$717,945 expended for that purpose during the past fiscal year.

TABLE 1.—AWARDS AND VALUATIONS UNDER FEDERAL EMPLOYEES' COMPENSATION ACT, BY EXTENT OF DISABILITY, 1930

Extent of disability	Number of cases	Duration (days)	Average duration (days)	Amount of award	Average award
Temporary total disability: Compensated Noncompensated	7, 456 8, 905	304, 681 80, 454	40. 8 9. 0	\$741, 927	\$99. 51
Total	16, 361	385, 135	23. 5	741, 927	45. 35
Permanent partial disabilities: Dismemberments Loss of function	1 149 2 131	21, 029 86, 502	141. 1 660. 3	53, 952 230, 663	362. 09 1, 760. 79
Total	280	107, 531	384. 0	284, 615	1, 016. 48
Deaths	247 217 41			3 2, 869, 143 41, 851 28, 131 717, 945	11, 615, 96 192, 86 686, 12
Grand total	16, 888	492, 666	4 29. 6	4, 683, 612	277. 33

<sup>1</sup> Includes 28 noncompensated cases with a duration of 917 days.

Estimated total cost.
 For 16,641 nonfatal cases.

On December 31, 1930, there were 731 cases on the docket in which compensation was being paid for permanent total disability, and 1,134 cases of permanent partial disability in which compensation was being paid for reduction in earning capacity. Approximately 30 per cent of the total disability cases and more than 25 per cent of the partial disability cases are being compensated for injuries of more than 10 years' duration. Total payments made up to December 31, 1930, in these cases amounted to \$3,543,880 for compensation and \$624,303 for medical cost in the total cases, and \$2,788,050 for compensation and \$444,175 in the partial cases. The ultimate total cost is estimated to be approximately \$20,000,000 for the total cases and more than \$9,000,000, exclusive of future medical expense, for the partial cases.

<sup>&</sup>lt;sup>2</sup> Includes 8 noncompensated cases with a duration of 214 days.

Falls of persons outnumbered all other causes of injury and were responsible for 36 of the deaths and 4,060 of the nonfatal cases closed during 1930, nearly one-fourth of the total number. Handling of heavy objects caused 5 of the deaths and 1,774 of the nonfatal cases, while automobiles caused 21 of the deaths and 918 of the nonfatal cases. Hand tools glancing and slipping caused 2 of the deaths and 892 of the nonfatal cases, while mechanical causes accounted for 11 of the deaths and 748 of the nonfatal cases. These five causes consequently were responsible for slightly more than one-half of the injuries in cases closed during 1930.

### Longshoremen and Harbor Workers

Under the longshoremen's and harbor workers' compensation act compensation and medical care for injuries is provided for employees of private employers while engaged upon work which is in whole or in part in maritime jurisdiction on the navigable waters of the United States, including dry docks. Aside from the longshoremen, who constitute the largest group of workers coming under the act, it also covers mechanics and ship repairmen, delivery men, solicitors, and inspectors, not employed by the Federal or State Government. Masters and crews of vessels are excluded, as are employees hired by masters of vessels under 18 tons net. Accurate information on the total number is not available, but a conservative estimate by the commission places the number of workers subject to the benefits of the law in excess of 300,000.

Reports were received during the fiscal year ending June 30, 1931, of 156 fatal and 28,705 nonfatal injuries, a total of 28,861 cases, or 27.6 per cent less than the number reported for the previous fiscal year (39,850). Besides the new cases, a total of 1,241 former cases were reopened for consideration during the year.

The number of cases closed during the year consisted of 106 fatal and 30,383 nonfatal injuries. In 25 of the fatal cases there were no dependents, and 67 other cases did not come within the scope of the law. The nonfatal cases consisted of 11,776 cases in which compensation payments were completed, 13,261 cases involving no loss of time, 4,067 cases in which the duration of disability did not exceed 7 days, and 1,279 cases disapproved by the commission.

Table 2 shows the nonfatal cases involving loss of time in which final payments had been made, with amount of compensation, and the fatal cases awarded compensation during the year, with the estimated total cost, by extent of disability and by occupation. The total nonfatal cases include 3,777 cases in which the duration of disability was seven days or less, and consequently not compensable.

At the close of the fiscal year there were 291 fatal cases on the docket, in which \$508,863 had been paid as compensation and the estimated future cost was \$1,590,813; and 2,104 nonfatal cases, in which payments of \$1,438,999 had been made as compensation and the estimated future cost was \$1,718,421. Payments for medical care and treatments are not included.

There was a general increase in the average severity of the injuries, and consequently also in the cost, for both longshoremen and repairmen, the two principal groups, as compared with the previous year. While the number of nonfatal, lost-time injuries for longshoremen decreased 20.8 per cent, the total days lost rose 4.3 per cent, raising

the average disability period from 48.5 days to 63.9 days per injury. For repairmen the number of lost-time injuries decreased 28.8 per cent, while the total days lost increased 1.5 per cent, raising the average disability to 57.5 days per injury, or 17. 2 days more than in the previous year.

TABLE 2.—LOST-TIME INJURIES AND COMPENSATION AWARDS UNDER LONGSHORE-MEN'S AND HARBOR WORKERS' ACT, BY EXTENT OF DISABILITY AND BY OCCU-PATION, 1930-31

		Fata	Fatal cases		Nonfatal cases, closed						
Occupation	Total injuries with loss of time Number	27	Esti- mated		anent par- isabilities		orary total abilities	7	Cotal		
				Num- ber	Amount of com- pensation	Num- ber	Amount of com- pensation	Num- ber	Amount of com- pensation		
Longshoremen Repairmen Supply men Inspectors Miscellaneous	11, 509 3, 315 21 49 211	55 13 0 0 11	\$309, 764 95, 696 74, 301	810 257 1 1 14	\$791, 650 275, 483 415 375 7, 650	8, 164 1, 830 11 33 128	\$1,016,307 244,659 522 3,408 24,964	11, 454 3, 302 21 49 200	\$1, 807, 953 520, 142 933 3, 783 32, 614		
Total	115,105	79	479, 761	1, 083	1, 075, 573	10, 166	1, 289, 860	115,026	2, 365, 43		

Includes 3,777 cases in which the duration of disability was 7 days or less.

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The principal cause of injuries to longshoremen was handling of material, which accounted for 28.3 per cent of all lost-time injuries. Falling objects came next, with 24.1 per cent, followed by moving objects, with 20 per cent, and falls of persons, with 13.8 per cent. For repairmen the most frequent and serious cause was falls of persons, which accounted for 21.6 per cent of the nonfatal injuries. Handling material caused 18.1 per cent, flying objects 17 per cent, and falling objects 9.1 per cent.

### District of Columbia Private Employees

Under the District of Columbia workmen's compensation act compensation and medical care for injuries is provided for workers in practically all private employment in the District of Columbia. The only employees excluded are masters or crews of vessels, employees of a common carrier by railroad when engaged in interstate or foreign commerce, and employees engaged in agriculture, domestic service, or casual employment not in the usual course of the trade, business, occupation, or profession of the employer. Approximately 14,000 employers are affected by the law, and it is estimated that it covers from 75,000 to 100,000 workers.

Reports were received during the fiscal year ending June 30, 1931, of 71 fatal and 19,576 nonfatal injuries, a total of 19,647, or 6.2 per cent more than for the previous year (18,499). Besides the new cases reported, a total of 703 previously closed cases were reopened for

consideration during the year.

The number of cases closed during the year consisted of 47 fatal and 19,986 nonfatal injuries. In 10 of the fatal cases there were no dependents, in 18 others it was held that the injury did not come within the law, and in 15 others that the death was not due to the injury. The nonfatal cases included 3,507 cases in which compensation was

paid without an award, 11,431 cases involving no loss of time, and 3,982 cases in which the duration of disability did not exceed 7 days. Table 3 shows the nonfatal cases involving loss of time in which final payments had been made, with amount of compensation, and the fatal cases awarded compensation during the year, with the estimated total cost, by extent of disability and by industry. The total nonfatal cases include 3,913 cases in which the disability did not exceed seven days and for which no compensation was paid.

TABLE 3.—LOST-TIME INJURIES AND COMPENSATION AWARDS UNDER THE DISTRICT OF COLUMBIA COMPENSATION ACT, BY EXTENT OF DISABILITY AND BY INDUSTRY, 1930-31

		Fatal cases		Nonfatal cases closed						
Industry	Total inju- ries with	Num- ber	Estimated total cost	Permanent partial disabil- ities		Temporary total disabili- ties		Total		
	loss of time				Amount of com- pensa- tion	Num- ber	Amount of com- pensa- tion	Num- ber	Amount of com- pensa- tion	
Clerical and personal service Construction	1, 245 2, 096 885	7 15 8	\$42, 684 79, 642 41, 035	19 36 33	\$17, 861 45, 954 25, 375	611 918 416	\$31, 896 77, 184 23, 768	1, 238 2, 081 877	\$49, 757 123, 138 49, 143	
Trade Transportation and public utili- ties	2, 306 945	8	24, 720 39, 552	31	29, 102 11, 259	1,022	57, 128	2, 299	86, 230 31, 603	
Total	17, 477	45	227, 633	129	129, 551	3, 390	210, 320	17, 432	339, 871	

<sup>&</sup>lt;sup>1</sup> Includes 3,913 cases in which the duration of disability was 7 days or less.

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Handling objects was the principal cause of injuries, and accounted for 24.7 per cent of the total. Falls of persons was next in numerical importance, with 19.2 per cent. Falling objects and striking against objects were each responsible for 7.3 per cent. Of the 45 fatal injuries, 40 per cent were caused by falls of persons and 22.2 per cent by automobiles.

# WORKERS' EDUCATION AND TRAINING

## Fitting Jobs to Mental Capacity

HE university of the State of New York has recently issued a study made by the vocational adjustment bureau of New York City, dealing with the kind of jobs within the capacity of women and girls of low intellectual levels, and including an analysis of the requisites for filling these jobs satisfactorily.1 The vocational adjustment bureau began its work in 1919, devoting itself to the study and placement of maladjusted girls. Early in its work it was impressed by the industrial loss due to the idleness of large numbers of young women who were unemployed because no tasks simple enough for them to perform had been found, and by the effect of this enforced idleness upon the girls themselves. At the same time, the bureau discovered, many simple operations in workshops and factories calling for little mental effort were being performed by girls mentally equipped to carry on more complicated tasks. If these girls could be released for higher-grade and better-paid work, room could be found for the subnormal girls who up to that time had been considered a complete loss to society. For years past the bureau has, through psychological tests and analysis of the requirements of a variety of occupations, gathered information as to the mental capacity required for various types of jobs, and the present study is based largely upon data thus collected.

The report is based upon the results of a classification of 2,465 jobs,

distributed among six large divisions of industry, as follows:

	Number of cases
Light factory work	1, 407
Hand sewing	291
Garment-machine operating	226
Press operating	70
Office, clerical	284
Office, stock girl	94
Selling	93
Total	2, 465

The number of cases shown above represents jobs and not individuals. That is, if a girl has held four jobs, they are considered as four separate cases. The worker's mental age, chronological age, and length of time on the job were collected for each case studied, and the type of job was noted. When possible the mental age was determined by the Binet-Simon test for general intelligence, and when some other test had to be used the findings were later transmuted into the Binet equivalent.

The time on the job has been used as the primary criterion of success on the job. The period of time chosen as a measure of success varies for different types of work. Many of the tasks are simple forms of labor, yet girls of low-grade intelligence may be incapable of acquiring sufficient dexterity to learn the process in the time set by the foreman. If a girl can not learn she will be discharged.

<sup>&</sup>lt;sup>1</sup> Unger, Edna W., and Burr, Emily T. Minimum mental age levels of accomplishment: A study of employed girls of low-grade intelligence. New York, 1931.
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It frequently happens that half a day is long enough for a trial at a particular In every case the period of time used as a measure of success represents a reasonable margin beyond the time allowed by the average foreman or employ. ment manager before discharging the girl as incapable.

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The period of time a girl must hold a job in order to be considered capable of performing it successfully was fixed as follows: All light factory jobs, 3 days; hand sewing, garment machine operating, press operating, and office clerical work, 2 weeks; stock girl in office, 1 week; selling, 1 month. A consistent attempt was made to discover for each occupation the lowest mental age at which the task can be performed sufficiently well for the worker to be retained. not mean that a girl of higher mental age may not perform the work better; it simply indicates that since persons of the mental age stated have been found working satisfactorily at a given job, that work may be regarded as within the capacity of persons of the specified degree of subnormality. Stress is laid on the importance of directing girls who are shown by the standardized tests to be of subnormal intelligence into work which does not demand more mentality than they possess.

Full details are given as to each type of work studied, but the main

results of the study are thus presented:

In summing up the findings of this survey it will be observed that work can be found for girls measuring as low mentally as five years. This was found to be the case in the occupation of packing. To generalize that any and all applicants of a retarded mental development of five years can be sent to a packing job is to invite disaster. It does furnish an indication, however, that this occupation, of all those investigated, is the one that makes less call on the intellect of the worker.

Various types of light factory work are found possible for a girl of approxi-

mately six years' mentality.

At the 7-year mental level, the range of occupation widens. Assembling, errand-girl jobs, examining and pasting jobs offer many desirable opportunities to girls of this grade.
At least four occupations were found to be open to workers with the mental

age of eight years.

When we reach the 9-year level we find four more occupations available. At the 10-year mental level clerical work is possible and at the 11-year level

selling is sometimes a successful type of work.

These conclusions are not carried further since in this survey we are interested only in a study and analysis of occupations suited to those girls whose mental equipment is below the 12-year level.

The realization that persons of low-grade intelligence are capable of performing much of the industrial work of the world is not a new idea. It has long been recognized, and individual cases have been used as illustrations of this fact. As large a survey as this of the industrial situation from the point of view of mental measurements has, however, so far as can be ascertained, not been made before.

# Emergency Unit Training Courses in New York City

IN January, 1931, at the East Side Continuation School, New York City, an emergency unit training course was inaugurated by the Emanuel Federated Employment Service cooperating with the welfare council coordinating committee on employment and the city's board of education. This course gives jobless men and women an opportunity to make effective use of some of their leisure by getting additional vocational training either in their own field or in other lines of work. A second and equally important purpose of the course is to maintain the morale and mental equilibrium of those who are in

serious danger of mental collapse because of protracted unemployment. An account of this experiment in adult education by the secretary of the Emanuel Federated Employment Service, who is in charge of the adult unit training course, is published in the January, 1932, issue of the Journal of the American Association of University

Women, from which the data here presented are taken.

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The school in which this emergency course was established ranks highest in equipment among the general continuation schools of the city. All those who came to the course during the first three or four months of its organization were directed there by the numerous agencies cooperating with the welfare council. After registration applicants were referred to the vocational counselor for consultation, were physically examined by a physician, and had a conference with The adults were placed in the regular continuationthe class teacher. school classes but attended 5 days a week for 4 hours per day instead of attending only 1 day per week. The courses open to men included printing, electrical wiring, plumbing, auto mechanics, woodworking, machine shop, trade drawing, garment designing and tailoring; those open to women, power-machine operating, dressmaking, millinery, and cafeteria work; and those open to both men and women, bookkeeping, stenography, typewriting, civil service, and commercial art. In order that some might take advantage of the courses who would

In order that some might take advantage of the courses who would otherwise not have been in a financial position to do so, a number of organizations have given financial assistance to the persons whom they sent to this school. Some received a tide-over wage of \$6 per week; some were given \$1.50 per week for car fare and lunches. Various

organizations accorded scholarships to students.

At the close of the first month more than 350 persons were enrolled for courses, and at the close of June, the end of the regular school term, the registrations had reached 1,000. The average daily attendance for the 5½ months was 250. The students were constantly coming and going. Some finished a course in a few weeks. Approximately 250 were placed. Numbers left without announcing whether or not they had secured jobs. According to the author, the unfortunate dearth of information concerning the vocational requirements of New York City makes it exceedingly difficult to advise men who come to the school to go into any special trade with the assurance of a future job in that field. Without such assurance it is not easy to hold a man to a unit course when he thinks he might have an equally good chance to get a job by going out every day in search of one.

At first, applicants for courses were directed into existing classes, and this to a large extent is still the procedure. By degrees a large enough group was enrolled to form four separate units of trainees only. The numerous young women who already have had some commercial training and desire to continue such training have been the cause of considerable anxiety to those engineering the short-unit courses. It has been realized that the situation called for very definite guidance, as the commercial field for women is probably one of the most congested and one in which age, personality, and education are highly important factors. The girl, however, whose parents have made great sacrifices to enable her to get a high-school education is not easily induced to become a factory worker. The continuation school has developed the cafeteria course into a tea-room course which

includes waitress and hostess training and management training for those who have the capacity to do such work. A course in beauty culture has also been instituted. It has been found that these courses appeal to many girls and women who would otherwise wish to go into commercial lines.

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For the young women who have already had both training and experience in one kind of commercial work and whose education and personality fit them for such work, the school endeavors to supply other opportunities along similar lines.

Some of the men with training and experience in one of the trades have found the trade drawing class of very great assistance. While these men were good workmen, they had previously not been able to read blue prints, which is one of the requirements of modern industry.

As the result of a brief inquiry and several conferences with the director of the Federal Board for Vocational Education and representatives of some of the largest real estate firms in the city, a new course has been inaugurated to train men as handy men and porters. The men taking this course, because of previous training and experience—they are mostly European-trained engineers—will probably rise quickly to the post of assistant superintendent or superintendent in smaller houses, and, we hope, ultimately to superintendent of a large apartment house.

The principal of the school gives the teachers great liberty. The students acquire the fundamentals and as much more as they wish to learn of the particular things in which they are interested. As a consequence, a man who goes into the woodworking class does not have to be taught how to make a mortise or a tenon joint because, according to the curriculum, he should receive such instructions in the second week of the course. The student may already be skillful in such work.

Great credit is given in the article to the acting principal of the school. It is also stated that the teachers have worked hard, at top speed, with large numbers of students eager to make progress. The splendid spirit of the teaching staff the author attributes in large part to the leadership of the acting principal, who visualized the potentialities of the experiment and had the ability to surmount the numerous obstacles resulting from dearth of funds and the rules and regulations of an important civic organization.

Last June the board of education decided to keep on with the instruction of unemployed adults in July and August in the East Side Continuation School and the Harlem Continuation School. Before these schools were opened on July 6 all the important New York City newspapers were requested to carry a news story on the subject. This publicity swamped the East Side school with applicants. By the second day nearly 600 were enrolled. At the close of the first week there were more than 300 on the waiting lists. The registrations for July and August totaled 1,100, while the average daily attendance was 550.

Only applicants over 17 years of age were admitted to the summer school, so that these adult students came in contact only with persons of their own age who had the same earnest purpose and ambition. Classes were conducted in the afternoon only, in order that the students might look for jobs in the forenoon.

Over 2,000 unemployed men and women have registered at the East Side Continuation School during the past eight months. They are largely American born, from all social groups, of all races—white, back, and yellow. Of over 2,000 students, more than half were born in New York State, and the greater

number of these in New York City. Less than one-third are foreign born, and few of these have been in the country so short a time that they can not speak English. There are college and university graduates as well as those who have only graduated from elementary school and high school. There is also a group of older people who left elementary school before graduation at a time when the compulsory school age was much lower than it is to-day.

The greater number of the students tell the school authorities that they are getting something from their courses which they never had before, and that "they feel a reality about the work which they are doing and there is a definite goal toward which they are heading. Many of these people have never had any vocational training; they left high school before they graduated and took the first job offeredone that called for no previous training and in a field where there was a large labor surplus.

Basing her statement on eight months' experimenting, the author

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We are firmly convinced that there is a need in our educational system for a school for adults, such as this one. We feel, however, that it should be separate and distinct from a compulsory school or one for young, immature people. There should be great flexibility to accommodate the time that each individual has available. The content of the courses should be adapted to the mature, We need more vocational guiding and testing, particularly for serious adult. the older adult. Sometimes what is needed is not training but advice based upon scientific knowledge. We need more information as to industrial requirements. We must keep in constant touch with all the industrial fields and follow their trends in order that we may know where people in the various age groups with different aptitudes and different experience can be placed.

The writer also points out that although the present situation is not normal because of economic conditions, such conditions have possibly aggravated something that has been in existence for a considerable time. She declares that the educational system in the United States educates boys and girls in accordance with the country's democratic traditions as long as their parents are able to send them to school, or as long as the law makes such attendance compulsory. She contends, however, that most of these young people are given the same education without regard to their aptitudes and without much effort to fit them for industrial life. "The one place where they receive excellent training," she holds, "is the business course in the high schools; but just as we have produced too many automobiles or radios in our factories, so have we produced too many boys and girls for white-collar jobs." According to the article, closer cooperation between industry and the schools, more practical training in various fields, and more real guidance are required lower down in the educational system.

# Wisconsin's Itinerant Vocational-Instructor System

VITH the purpose of providing its smaller cities with a variety of occupational instruction at a reasonable cost, Wisconsin is operating an itinerant instructor system. Circuits are formed and a teacher is employed jointly by the local vocational boards of four or five neighboring vocational school cities. Apprentices and journeymen in barbering, plumbing, painting, electrical, and other trades are being taught in this way, according to an article in the annual publication of the State federation of labor.1

<sup>&</sup>lt;sup>1</sup> Wisconsin Federation of Labor, Wisconsin Labor, 1931, pp. 9-19: Park Bench or School Bench, by Jennie McMullin Turner, assistant in teacher training, Wisconsin State Board of Vocational Education.

The State board of vocational education aids in organizing these circuits and the advisory committees representing the masters and journeymen of these respective cities and assists in finding teachers acceptable to all the interested parties. Moreover, the board provides continuing teacher training and help to these itinerant instructors after they are placed on their jobs. The itinerant teacher remains one day a week in each city included in his circuit. In the daytime he visits the local industry, meets with his advisory committee, instructs apprentices, and gives vocational counsel to other part-time school pupils. In the evening he instructs journeymen. This whole scheme of education is complicated and calls for "constant care and thought, but it is justified by the results."

The writer of the article claims that the expansion of this system will insure variety in the vocational program as against a scheme of massing the young people into the few trades a school is able to teach. The itinerant-teacher plan averts overcrowding in these few trades and therefore prevents unemployment. Furthermore, the scheme enables a person already employed in a trade to improve himself and retain his job and thus reduces labor turnover. The progress of the system is dependent in large degree, however, upon the maintenance of the present representative separate board system.

# INDUSTRIAL DISPUTES

# Strikes and Lockouts in the United States in January, 1932

DATA regarding industrial disputes in the United States for January, 1932, with comparable data for preceding months are presented below. Disputes involving fewer than six workers and

lasting less than one day have been omitted.

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Table 1 shows the number of disputes beginning in 1927, 1928, 1929, and 1930, the number of workers involved and man-days lost for these years and for each of the months, January, 1930, to January, 1932, inclusive, as well as the number of disputes in effect at the end of each month and the number of workers involved. The number of man-days lost, as given in the last column of the table, refers to the estimated number of working days lost by workers involved in disputes which were in progress during the month or year specified.

TABLE 1.—INDUSTRIAL DISPUTES BEGINNING IN AND IN EFFECT AT END OF EACH MONTH, JANUARY, 1930, TO JANUARY, 1932, AND TOTAL NUMBER OF DISPUTES, WORKERS, AND MAN-DAYS LOST IN THE YEARS 1927 TO 1930

	Number	of disputes		workers in- disputes	Number of man-days lost in dis-
Morth and year	Beginning in month or year	In effect at end of month	Beginning in month or year	In effect at end of month	putes exist- ing in month or year
1927: Total	734 629 903 653		349, 434 357, 145 230, 463 158, 114		37, 799, 394 31, 556, 947 9, 975, 213 2, 730, 368
1930	45 52 49 64 66 59 78 51 72 47 44 26	21 40 38 41 29 34 30 33 44 46 29 7	9, 240 37, 480 15, 017 6, 379 9, 329 14, 011 14, 308 15, 902 16, 337 10, 858 4, 390 4, 863	5, 316 6, 683 5, 957 5, 840 4, 386 8, 311 4, 815 7, 131 13, 778 16, 007 7, 759 5, 144	184, 730 438, 570 291, 127 189, 828 185, 448 144, 117 141, 647 142, 738 208, 184 335, 916 273, 608 194, 455
1931	56 52 45 60 106 81 67 76 110 70 56	20 34 27 39 49 51 54 43 59 41 31	10, 147 19, 984 26, 121 26, 442 27, 588 18, 437 49, 574 10, 977 35, 859 33, 548 12, 611 5, 118	2, 927 12, 512 28, 139 22, 604 15, 735 17, 071 58, 995 17, 003 37, 164 28, 696 12, 910 2, 509	181, 031 228, 329 422, 545 769, 720 402, 437 506, 097 666, 309 1, 213, 120 491, 024 1, 038, 063 339, 730 147, 426
January 1	63	61	10, 146	6, 649	133, 944

<sup>&</sup>lt;sup>1</sup> Preliminary figures subject to change.

## Occurrence of Industrial Disputes, by Industries

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Table 2 gives by industry, the number of strikes beginning in November and December, 1931, and January, 1932, and the number of workers directly involved.

TABLE 2.—INDUSTRIAL DISPUTES BEGINNING IN NOVEMBER AND DECEMBER, 1931, AND JANUARY, 1932

on shows a theory of a	Number	r of disput ning in—			of workers utes beginn	
Industrial group	Novem- ber	Decem- ber	January	Novem- ber	Decem- ber	January
BakersBarbersBrewery and soft-drink workers	2 2 1	2 3	1	18 38 6	29 626	700
Building trades. Chauffeurs and teamsters. Clothing. Food workers.	14 1 13	14 5 15 2	13 5 19	1, 567 7 692	475 313 1,417 910	76) 3, 900 1, 198
Furniture	2	1	1	59	48	20 50
Longshoremen Lumber, timber, and mill work Metal trades	5	1	î	414 67	500	200
Miners Motion-picture operators, actors, and theatrical workers	5	3	6	1,694	638	1, 519
Printing and publishing		1	1		15 40	45
Municipal workers Telegraph and telephone workers Textiles	1 4	1	9	40 341	7 30	1, 287
TobaccoOther occupations	2		3	7,662		164
Total	56	51	63	12, 611	5, 118	10, 146

# Size and Duration of Industrial Disputes, by Industries

Table 3 gives the number of industrial disputes beginning in January, 1932, classified by number of workers and by industries.

TABLE 3.—NUMBER OF INDUSTRIAL DISPUTES BEGINNING IN JANUARY, 1982, CLASSIFIED BY NUMBER OF WORKERS AND BY INDUSTRIAL GROUPS

斯拉 (E) 型位 10	Number of	disputes beg	ginning in Ja	nuary, 1932,	involving—
Industrial group	6 and under 20 workers	20 and under 100 workers	100 and under 500 workers	500 and un- der 1,000 workers	1,000 and under 5,000 workers
Barbers		7	3	1	******
Clothing Furniture Jewelry workers	6	7 1	6		
LeatherLongshoremen		î	1		
Metal trades Miners Printing and publishing		3 1	2	1	
Municipal workers Textiles Other occupations		4 3	1 2	1	
Total	11	29	16	6	acquiters.

In Table 4 are shown the number of industrial disputes ending in January, 1932, by industries and classified duration.

Table 4.—NUMBER OF INDUSTRIAL DISPUTES ENDING IN JANUARY, 1932, BY INDUSTRIAL GROUPS AND CLASSIFIED DURATION

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	Classified		trikes ending 32	in January,
Industrial group	One-half month or less	Over one- half and less than 1 month	1 month and less than 2 months	2 months and less than 3 months
Bakers Building trades Chauffeurs and teamsters Clothing Leather Miners Textiles Other occupations	9 4 7 1 3 7	1 1	2 1 1	1
Total	31	4	4	:

## Conciliation Work of the Department of Labor in January, 1932

By Hugh L. Kerwin, Director of Conciliation

THE Secretary of Labor, through the Conciliation Service, exercised his good offices in connection with 62 labor disputes during January, 1932. These disputes affected a known total of 50,846 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout or controversy not having reached the strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status, the terms of settlement, the date of beginning and ending, and the number of workers directly and indirectly involved.

On February 1, 1932, there were 38 strikes before the department for settlement and in addition 37 controversies which had not reached the strike stage. The total number of cases pending was 75.

LABOR DISPUTES HANDLED BY THE CONCILIATION SERVICE DURING THE MONTH OF JANUARY, 1932

	Nature of	Craftsmen con-				Dur	Duration	M	Workers
Company of industry and location	controversy	cerned	Cause of dispute	Present status and terms of settlement	ettlement	Begin- ning	Ending	B Di-	Indi- y rectly
Radio musicians, Chicago, Ill	Threatened strike.	Radio musicians	Asked increase from 10 to 15 members, 6-day week, 30 hours, without pay cut.	Adjusted. Allowed 15 musicians (Class A orchestras), 6-day week of 35 hours, minimum scale of \$90 per week.	musicians ty week of of \$90 per	1931 Dec. 28	1931 Dec. 31	200	200
Annex to post-office building,	Controversy	Building	Demand for payment of pre-	Adjusted. Rates fixed and now being	ow being	Dec. 17	1932 Jan. 2	26	25
Simon Ackerman (Inc.), New	Strike	Clothing workers	Reduction of force	Adjusted. Accepted wage cut	cut and	Dec. 21	Jan.	20 650	0
Union Coal Co., Airline Coal Co., Big Four Co., Ottumwa, Iowa.	Lockout	Coal miners	Wages cut from \$1.04 to 80 cents per ton for machine operators; for others, from	reduction of force. Unable to adjust. Conference refused by companies.	e refused	Dec. 15	Jan. 2	23 100	
Post office, Atlanta, Ga	Controversy	Engineers	Rates for Saturday afternoon	Adjusted. Allowed \$62 per week of	week of	Dec. 20	do	-	3 260
Post-office building, South Bend,	- op	Laborers	and Sunday.  Hiring laborers as helpers at	56 hours. Adjusted. Allowed 50 cents per hour.	per hour.	Dec. 28	Jan.	1-	4
Post-office building, Greensboro,	do	Carpenters	Refusal to pay prevailing wage.		prevailing	Dec. 30	Jan.	9	
Courthouse and Hall of Records, Elizabeth, N. J.	Strike	Carpenters and structural-iron	Jurisdiction of setting steel frames.	scale of 75 cents per hour. Adjusted. Work awarded to carpenters.	o carpen-	Dec. 22	Jan. 2	29 31	59
Post-office building, New Britain, Conn.	Controversy	workers. Mason tenders	Contractor refused to pay pre- vailing wage.	Adjusted. Agreed to pay prevailing rate, 96 cents per hour instead of 40	revailing tead of 40	do	Jan.	5 (3)	
Coal merchants, New York City and Newark, N. J.	Threatened strike.	Coal trucking	Proposed 10 per cent cut and change in working conditions.	Adjusted. Agreed to arbitrate	te.	Dec. 4	Jan.	9 1,000	1,000
Standard Sanitary Mfg. Co.,	Controversy	Metal polishers	Wages cut 20 per cent	Adjusted. Accepted 20 per cent cut	cent cut.	1932 Jan. 1	Jan. 1	12 200	1,800
Building, Wilkes-Barre, Pa.	StrikeThreatened	Steam fitters and plumbers.	Wages cutProposed wage cut of 20 cents	Adjusted. Accepted \$1 per day cut; grievance committee appointed. Pending.	day cut;	dodo	Jan. 1	08 (:)	
Burns Bros. and Stephen Fuel Co.,	Strike.	Coal drivers	per hour. Proposed 10 per cent cut	Adjusted. Agreed on arbitration and	ation and	Jan. 6	Jan.	8 125	-

condi. [ Adiusted. Accepted 10 per cent cut | Jan. 4 | Jan. 9 | 750 | 1,550

						1	NDU	ST	RIA	L D	ois	PU'	TES						609
1, 550	89	180			250			275	425	2,685			20	125	10	150		2,050	
750	12	120	12	15	10	100	01	25	22	12	Θ	Θ	80	20	10	200	40	3,000	16
0 0		11		14	12	14	13	4		16	15		1-	53	1				25
Jan.	Jan.	Jan.		Jan.	Jan.	Jan.	Jan.	Feb.		Jan.	Jan.		Feb.	Jan.		1 1	1		Jan.
4 -		6	10	. 1		0	10-	11	1	14	œ	16	14	. 15	9	41	18	16	œ
Jan.	opdo	Jan.	Jan.	Jan.	do	do	Jan. Jan.	Jan.	Jan.	Jan.	Jan	Jan.	Jan.	Jan.	Jan.	Jan. Jan.	Jan.	Jan.	Jan.
Adjusted. Accepted 10 per cent cut and returned; company granted Some concessions.	per day. Adjusted. Allowed prevailing wag	4	stated, some changes in conditions.	Þ	progress. Adjusted. Satisfactory settlement	Adjusted. Union drivers employed	Pending Satisfactorily settled	Adjusted. Returned without change;	Pending	Y	Y	lopes each week as desired.	Adjusted. Compromised; part of men reemployed.	Adjusted. Accepted \$9.25 per day	Pending	op			Adjusted. Company agreed to pay \$10 per day.
Wages cut 10 per cent; condi- tions.	wage.	Asked increase; protest two	discharges. Piece rates cut.	Prevailing rates not being paid.	Alleged discrimination against	Nonunion drivers employed.	Wage cut.	Change in piecework	Carpenters doing work claimed by lathers and sheet-metal	workers. Refused to accept wage cut	Protest against method of pay	Working conditions	Piecework scales cut, dis-	Wages cut.	Demand for payment of pre-	Sending work to outside shops. Asked reinstatement of dis-	charged worker. Asked 8-hour day, \$9 for riggers and \$7 per day for help-	Asked \$60 to \$100 per ton for catching various species of	Failure to increase from \$9 to \$10 per day on Jan. 1, 1932.
Worsted weavers	Electricians	Shoe workers	Leather workers	Building	Electricians	Bricklayers, masons, carpenters,	and teamsters. Employees	Mattress makers	Lathers and sheet- metal workers.	Garment workers	Carpenters	Shoe workers	Wire workers	Plumbers	Carpenters	Clothing workers	workers. Safe movers, rig- gers, and helpers.	Fishermen	Glaziers
Controversy	1	Strike	do	Controversy.	Strike	do	Controversy.	Strike	qo	qo	Threatened	Strike.	do	Controversy.	do	Strikedo	qo	ф	qo
Uxbridge Worsted Co., Uxbridge, Mass. Naval Air Basa Sunnavala Calif	Post-office building, South Bend,	Ind. Andrew Geller Shoe Co., Brook-	Perfect Sportwear Co., New York	Post-office building, Evansville, Ind.	Veterans' Hospital, Albuquerque,	County Welfare House, Preakness, N. J.	Nicollet Hotel, Minneapolis, Minn- Parcel Post Building, Jacksonville,	Kay Manufacturing Co., Brooklyn,	Penn Mutual Building, Philadel- phia, Pa.	Tavel-Constantine (Inc.), Boston,	Post office, Rochester, Pa	Shoe Board of Trade, Brooklyn,	Artistic Wire Forming Co., New York City.	Plumbers and steam fitters, Day-	von, Onio. Veterans' Home, Sawtelle, Calif	A. S. Birsh Co., New York City Pincus-Tobias Shoe Co., Brooklyn,	Krasilovsky & Bro., New York City.	Tuna fishermen, California coast	Pittsburgh Plate Glass Co., Philadelphia, Pa.

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Adjusted. Compromised; will reem. | Jan. 25 | Feb. 4

LABOR DISPUTES HANDLED BY THE CONCILIATION SERVICE DURING THE MONTH OF JANUARY, 1932-Continued

	Nature of	Craftsmen con-				Duration	Wei	Workers
Company or industry and location	controversy	cerned	Cause of dispute	Present status and terms of settlement	Begin- ning	Ending	DI- rectly	Indi-
Anchor Post Fence Co., New York	Controversy.	Ornamental-iron	Alleged violation of agreement.		1932 Jan. 12	1932 Jan. 2	20 18	
Atias Fence Co., Newark, N. J. Freedom Oil Works Building, Rochester, Pa	Threatened	do Carpenters.	Working conditions	Pending Adjusted. Will receive pay in cash as	Jan. 1 Jan. 20	Jan. 21	1 (3)	
Post office, Camden, N. J.	Controversy.	Operating engineers Carpenters	Wage scale. Failure to pay prevailing scale.	Pending Adjusted. Agreed to pay prevailing	Jan. 15	Jan. 1	18 28	8 80
Post office, Uniontown, Pa	do	Building trades	Prevailing wage scale	scale—50 cents per hour. Adjusted. Prevailing wage rates for	-	Feb.	3 200	300
Post office, Louisville, Ky	Threatened	Ironworkers	Foreman demoted by subcon-	all crafts agreed upon. Adjusted. Foreman reinstated by	Jan. 14	Jan. 1	18 40	340
Y. M. C. A. Building, Harrisburg, Pa.	Strike	Bricklayers	Wage rates cut; will accept \$1.25 per hour; contractor	Pending	Jan. 20		35	1
Post office, Fort Wayne, Ind	do	-do	paid \$1. Dispute between unions	Adjusted. Dispute satisfactorily set-	Jan. 15	9 9 9 9 9	13	50
Post office, Greenfield, Ind	do	do	Subcontractor failed to pay	tled and work continued. Adjusted. General contractor agreed	do	Jan. 20	01 10	
adies' garment makers, Boston,	Threatened	Garment makers	wages due bricklayers. Proposed wage cut	to pay the wages due.	do	8	30,000	
Philby Dress Co., New York City.	Strike.	Dressmakers and	Asked increased rates on piece-	-do	Jan. 18		- 21	
Gold-Tee Knitting Mills, New	op	Knit-goods workers.	work.  1 discharged for incompetency.	-do	Jan. 16			-
Diana Frocks (Inc.), Brooklyn, N. Y.	qo	Underwear and knit-goods work-	Piecework rate cut from 7 to 15 per cent.	Unclassified. Plant moved away from Brooklyn.	do	Feb.	4 175	91 160
Finkelhor Bros. (Inc.), New York	do	Garment workers	Sending work to outside shops	Pending	Jan. 20		32	
Dam No. 31, Ohio River near Ports-	Controversy.	Building trades	Protest against low wages	-do	Jan. 10		3	
Self-Mechanics Flooring Co. (Inc.),	Strike	Floormen and	Piecework rates cut 20 cents	op	Jan. 23	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20	_
My Favorite Dress Co. (Inc.), New York City.	do	Operators, pressers, and finishers.	Asked increase in piecework	Adjusted. Operators allowed 5 cents increase on each dress, finishers 2 cents, and pressers I cent.	Jan. 22	Jan. 26	30	

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			1	1	92	60	88	
p. q	n. 2	ın. 2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		n. 2	eb.		
S F	- 3E	1 36	4	27	36 J	7 T		_
n. 2	AD.	an.	Jan.	Jan.	an.	an.		
Discharge of workers Adjusted. Compromised; will reem. Jan. 25 Feb. 4	ditions warrant. Adjusted. Prevailing rate allowed Jan. 8 Jan. 26 and back wages paid.	Adjusted. Investigation made and Jan. 1 Jan. 27 (1) rates fixed by conciliator and representative of War Department.	Pending	. Cut withdrawn and exist-	Adjusted. Nonunion contract can- Jan. 26 Jan. 26	Adjusted. Work awarded house. Jan. 25 Feb. smiths and others called off this work by Treasury Department.	38.501 12.345	
Discharge of workers	Alleged failure to pay electricians prevailing rate.	Demand for payment of prevailing rate.	Wages cut from 7 to 20 per cent.	Wages cut from 85 to 70 cents	Protest against nonunion sub-	Jurisdiction; alleged violation of agreement.		
Silversmiths	Building	dodo	-do-	Longshoremen	Glaziers	Steel workers on metal lockers.		
qo	do	Controversy.	do	Strike	do	Controversy.		
riston Silversmith Corp., Newdo Silversmiths York City.	B. McDaniel, contractor on dodo	ost office, Brownsville, Tex Controversy	afts, Norfolk, Va	he Grace Steamship Lines, Brook- Strike.	ost office, Cicero, Illdodo	eneral Post Office, Brooklyn, Controversy. Steel workers on N. Y.	Total	

1 Not reported.

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# LABOR AGREEMENTS, AWARDS, AND DECISIONS

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## Agreements

### Railroad Labor Agreements of February 1, 1932

THE representatives of 20 of the railroad labor unions and of more than 200 railroads, including practically all of the first-class railroads of the United States, signed two agreements, January 31, 1932, one calling for a 10 per cent deduction in wages and the other dealing with employment conditions. Each of these agreements constitutes an agreement between each participating railroad and its employees represented by each participating railway organization which now has a contract with the railroad concerning rates of pay and working conditions

## Agreement Regarding Wage Deduction

The first of the agreements, terminating February 1, 1933, and providing for a 10 per cent deduction in wages, reads in full (with the

exception of the appendixes) as follows:

"This agreement is entered into between the railroad companies, designated hereafter as 'participating railroads' and listed in Appendixes A, B, and C attached hereto and thereby made a part of this agreement, represented by the committee of railway presidents, signatory hereto, and the employees of the said participating railroads, represented by the chief executives of the respective organizations, signatory hereto, and is to be construed as an agreement by and between each participating railroad and its employees represented by each participating organization which now has a contract with the railroad concerning rates of pay, rules, and working conditions, and is included in the 'participating organizations' which are listed after the name of each participating railroad in the said Appendixes A, B, and C, attached hereto.

"It is understood and agreed that in the application, interpretation, or carrying out of this agreement each organization of employees, signatory hereto, will represent respectively, in the usual manner, the employees of each of the participating railroads for whom said organization has an existing contract, as evidenced in Appendixes A, B,

and C

"This agreement also is entered into by, and will apply to, the Pullman Co. and the Railway Express Agency, represented by the committee of railway presidents, and the respective employees thereof, represented, as to the Pullman Co., by the Order of Sleeping-Car Conductors, and as to the Railway Express Agency respectively, by the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express, and Station Employees; International Association of Machinists; and International Brotherhood of Blacksmiths, Drop Forgers, and Helpers.

"The signatories hereto, having been duly authorized by the said participating railroads and the participating organizations of employees of said railroads, as heretofore described, to 'negotiate to a conclusion certain pending issues concerning unemployment and wages,' hereby agree that 10 per cent shall be deducted from each pay check of each of the said employees covered by this agreement for a period of one year beginning February 1, 1932; that basic rates shall remain as at present; that this arrangement shall terminate automatically January 31, 1933; and further agree as follows:

"1. That the formal notices served by the participating railroads upon the participating organizations of employees for a 15 per cent reduction in present rates of pay shall be withdrawn and further

proceedings thereunder discontinued;

"2. That the participating railroads, without attaching any limitation upon the use of funds derived from the pay-roll deduction herein agreed to, will make an earnest and sympathetic effort to maintain and

increase railroad employment.

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"The foregoing agreement is signed at Chicago, this 31st day of January, 1932, in behalf of the participating railroads and their employees represented as hereinbefore set forth, and is independent of any other agreement entered into by and between the parties hereto."

## Agreement Regarding Employment Conditions

The second agreement, effective to February 1, 1933, deals with the various proposals put forward by railroad labor for the purpose of relieving unemployment and stabilizing employment. The first three paragraphs of this agreement are identical with the corresponding paragraphs of the first agreement. Beginning with the fourth

paragraph, the second agreement reads as follows:

"The signatories hereto, having been duly authorized by the said participating railroads and the participating organizations of employees of said railroads, as heretofore described, to 'negotiate to a conclusion certain pending issues concerning unemployment and wages,' hereby agree upon the disposition of the proposals of the employees concerning unemployment (set forth in Exhibit 1, attached hereto), as follows:

#### Item 1

"It is agreed that whatever may be practicable should be done to remove the feeling of uncertainty as to employment which may exist at the present time in the minds of many who are now employed, either upon a whole-time or part-time basis; and that varying conditions make it necessary to deal with this question by local negotiation on each railroad between each participating railroad and its employees, in the usual manner, through each participating organization; and that accordingly the railroads will carry on negotiations for the purpose of stabilizing employment for such periods and to such an extent as conditions may justify; it being understood that this agreement does not contemplate assurance of pay for service not performed unless covered by present agreements.

"The parties have been unable to reach any further agreement concerning the proposals of the employees as to stabilization of

employment.

Item 2

"The parties have been unable to reach any agreement concerning the proposals of the employees as to applying the principle of the 6-hour day. The position of the committee of railroad presidents on this subject is stated as follows:

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"For reasons which were fully explained by the chairman of our committee we find ourselves unable to accept your conclusions that the 6-hour day is necessary and that it must be instituted in order to absorb the existing number of experienced employees without reduction of compensation. Consequently, we would be unwilling to recommend the appointment at this time of a commission to determine ways and means of applying this principle to the different classes of employees.

#### Item 3

"(A) The parties have been unable to reach any agreement concerning the proposals of the employees as to joint action to promote a Federal bond issue for grade-crossing elimination. The position of the committee of railroad presidents on this subject is stated as follows:

"We doubt the wisdom of recommending to the Federal Congress at this time the appropriation of \$1,000,000,000 for the purpose set forth in your program. "The requirements of the several States as to the division of the cost of grade elimination are in our opinion in many instances inequitable. The employees can assist materially in seeking revised legislation providing for a more equitable division of expense of grade elimination between the public and the railroads, and we would be glad to have their cooperation in that connection.

"(B) It is agreed that there should be a fair and proper regulation of motors engaged in highway transportation and that no unfair or unjust burden should be placed upon transportation agencies of any character. It is believed that motor transportation now enjoys certain advantages which in effect are prejudicial to the railroads. The parties will be pleased to work together in developing desirable and fair Federal and State legislation covering highway transportation competitive with the railroads, such joint effort to include full consideration of the entire report of Examiner Flynn, which has been submitted to the Interstate Commerce Commission. The railroad presidents' committee will recommend to the participating railroads that consistent with the requirements of the service preference be given to furloughed railroad employees for employment by motor companies and freight-forwarding agencies when controlled by railroads, when additional men are required.

"The parties have been unable to reach any further agreement concerning the proposal of the employees as to regulation of motor transportation and freight-forwarding companies and provision for employment of furloughed employees therein.

"(C) The parties have been unable to reach any agreement concerning the proposal of the employees as to the protection of all interests in railroad consolidations. The position of the committee of railroad presidents on this subject is stated as follows:

"You will recall that this matter was very fully discussed at our conference, but owing to the conflicting viewpoints concerning certain phases of the subject as presented by you, and having in mind also that the subject is one concerning which railway executives are not in complete accord, we think it would be difficult if not impossible for us to reach any joint conclusion concerning the matter at this time.

"(D) It is agreed that the subjects of retirement insurance, elective workmen's compensation, and a dismissal wage will be studied by a joint committee composed of representatives of several of the participating railroads and a committee appointed by the Railway

Labor Executives Association, representing the participating organizations, which joint committee will report its findings promptly.

"The parties have been unable to reach any further agreement concerning the proposals of the employees as to the foregoing subjects. It is understood that agreement upon a study by a joint committee does not commit either party to accept or to await the results

of this study.

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"(E) It is agreed that regional employment bureaus will be established in connection with the Bureau of Information of the Eastern Railways, New York; Association of Western Railways, Chicago, and the Bureau of Information of the Southeastern Railways, Washington, each party to appoint representatives to confer as to details.

"(F) The parties have been unable to reach any agreement concerning the proposals of the employees as to coordination of train crews and train lengths. The position of the railroad presidents on

this subject is stated as follows:

"With you, we believe that train lengths and train crews should be coordinated on the basis of economical and safe operation, but unfortunately it has not been easy to agree as to what is safe and what is economical operation. The two terms are relative rather than absolute. It is our conclusion that probably we would be unable to agree concerning this matter and consequently we doubt the wisdom of recommending to the railroad executives at this time joint effort in this connection as you suggest. The question is one which we think can best be dealt with by the employees and managers of the individual companies.

"(G) The parties have been unable to reach any agreement concerning the proposals of the employees as to the creation and use of pay-roll reserves. The position of the committee of railroad presi-

dents on this subject is stated as follows:

"We favor, in principle, the policy of creating reserves, when earnings are good, to be available during periods of business depression. The use of such reserves, in our opinion, should not be restricted to any one purpose. It is unfortunate that existing conditions, with which you are familiar, make it impossible to set up reserves at this time.

Item 4

"The parties unite in expressing unqualified approval of wholehearted cooperation between management and employees and agree

to do everything they can in support of this policy.

"This agreement shall continue in effect for one year; and thereafter subject to modification or abrogation by any participating road or any participating organization, so far as it affects such road or such organization, without prejudice to any other road or any other organization, by the serving of a 30-day written notice by either party upon the other.

"The foregoing agreement is signed at Chicago this 31st day of January, 1932, in behalf of the participating railroads and their employees represented as hereinbefore set forth, and is independent of any other agreement entered into by and between the parties hereto."

Exhibit 1.—Outline of Program of Railway Labor Executives' Association to Relieve Unemployment and to Stabilize Employment, November 19, 1931

The problem which railway labor must solve: (A) Insecure employment. Less than 50 per cent of necessary workers assured of continuing employment. (B) Diminishing employment. Thirty-three per cent fewer employees used to handle same traffic as 20 years ago. (C) Inadequate wages to provide reasonable living conditions and to protect against (a) disability (temporary or permanent), (b) unemployment. Four hundred thousand earning less than \$20 per week; another 600,000 earning less than \$30.

#### Insecure Employment

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Seasonal character of traffic has always made employment insecure—and relief for older employees through seniority rules has been sought. But technological changes, reducing total volume of employment, have limited seniority protection to fewer and fewer employees.

The solution of this problem lies in stabilizing employment along two lines—
1. Where work can be budgeted for the year and spread evenly, an average force should be assured employment for one year and at least part-time employment should be assured to the stand-by force necessary for heavy-traffic periods. The maintenance of equipment and maintenance-of-way work are examples of work which can be budgeted to a large extent. Running repairs and inspection service, dependent on volume of traffic, may require treatment similar to transportation service.

2. Where the fluctuating and uncertain volume of traffic calls for expansion and contraction of forces somewhat irregularly, it should be possible to establish minimum forces assured of full employment for one year and the necessary standby forces assured of a certain amount of part-time employment in one year.

The workers who are normally required for the operation of a railroad must have as much assurance of a fixed compensation from their fixed investments in the enterprise as those who invest money for a fixed return. In fact the essential labor charge should be a first lien upon the revenues of any business. The insecure income of the worker-buyer is a greater menace to the good order and progress of society than the insecure income of the investor-seller.

The amount of seasonal employment on the railroads is not indicated in the averages of all railroads. Heavy movements of grain from the west, of fruits and vegetables from the south and from the west, of coal from the east and from the south; and movements of cotton, lumber, oil, manufactured goods, etc., from different parts of the country, occur in different months. Therefore, the total number of employees required by the industry is greater than the annual average number reported by the Interstate Commerce Commission and the fluctuations in employment on individual roads are far greater than indicated in the monthly averages reported.

If employment could be stabilized by a common program throughout the industry, the excessive number of men now furloughed by each road, who earn annually far less than even a living wage, could be materially reduced. Then it might be possible to create a mobile force of extra workers, shifting from one road to another somewhat as Pullman cars and freight cars are shifted to meet traffic requirements. Nothing less than a coordinated effort of all employers and employees could accomplish such an assurance of practically full-time employment for all experienced employees. But this achievement without an increase in rates of pay would raise considerably the actual average earnings of the employees, and would increase substantially the efficiency of labor, while decreasing the labor cost of all railroads, by reducing the turnover and improving the quality and morale of the employees.

There should be established a national placement bureau for the purpose of relocating railway employees separated from the service of a railroad because of permanent reductions of force and to provide for the temporary transfer of employees to extra work produced by seasonal or other temporary increases of traffic.

In order thus to stabilize employment without a vast amount of individual hardship it will be necessary to deal with the problem of diminishing employment so as to absorb between 200,000 and 300,000 unemployed men now dependent on the industry, but without reasonable expectation of reemployment even in a revival of past traffic volume.

#### Diminishing Employment

Technological changes, including the use of larger equipment and the constant substitution of machine power for man power, have eliminated jobs more rapidly than they could be recreated by increased traffic. It is reasonable to assume that further diminutions will result from future similar developments, and from the transfer of a part of rail transportation service to the motor transportation agencies.

In order to prevent unfair competition, motor transportation should be required to observe the same principles of safe, efficient, and socially just operation that have governed rail transportation. The rail managements and investors are particularly interested in a fair competition with money invested in the railroads.

The rail workers are particularly interested in a fair competition with labor invested in the railroads. Similar working conditions should prevail; and there is no reason why rail workers displaced by motor-transportation agencies should not be relocated in furnishing motor transportation services similar to those they are trained to perform on the railroads. The operating services, the maintenance and elerical services call for much the same general training in both fields.

The principal method of dealing with diminishing employment which should be adopted is shortening the hours of labor. The social advantage of this program is clear. Instead of adding employees to the ranks of the unemployed, an industry in which the productivity per employee is greatly increased can be called upon to shorten hours of work without reduction of annual earnings per employee. Comparing 1910 and 1930, the employee of to-day handles over 50 per cent

more traffic and produces twice as much surplus revenue over labor cost.

The establishment of the 8-hour day has demonstrated that improved methods and machinery and the increased efficiency of the workers permit of a shortened workday without reduction of average earnings and without a corresponding increase in the total pay roll.

It should, however, be recognized as more socially desirable to pay wages to workers than to pay returns on property. Unless costs of production can be materially reduced and displaced workers can be relocated, there is no social advance in the substitution of machine power for man power. Every industry should aim to reduce man power only by employing fewer new men and shortening work hours and not by discharging experienced workers. After such humane reductions of man power are accomplished an industry requiring fewer man-hours should reflect this increased productivity in higher wages for the reduced forces.

#### Inadequate Wages

A principal cause of inadequate wages in the railroad industry is part-time employment. A wholly false picture is presented by the wage statistics reported to the Interstate Commerce Commission. Thousands of train and engine service employees work only from four to eight months a year. Thousands of maintenance men (in the shops and on the right of way) are idle for a substantial part of the year. In the months of employment their wages may average about as reported but average earnings on the basis of \$1,500 per year for only eight months of work equal only \$1,000 per year.

The average number of hourly workers in 1929 was less than 1,600,000, but it is fair to estimate that at least 1,900,000 employees collected the \$2,061,715,716 paid in wages. Thus the average compensation instead of \$1,623 would be only \$1,369. The stabilization of employment heretofore suggested would go far toward leveling up the present earnings of those now earning less than even a

living wage.

Present provision to protect against temporary or permanent disability are largely either voluntary deductions from wages to pay for insurances or voluntary pension payments by some railroads. There should be (a) an elective Federal compensation law to indemnify against occupational accidents and diseases; (b) a Federal law to provide retirement insurance.

Such a compensation law would save a huge waste of money in litigation.

The retirement law would save the waste of continuing employment beyond the time of efficient service.

There should be a provision made for the payment of a dismissal wage in all

cases of permanent dislocation of experienced employees.

There should also be worked out a provision for pay-roll reserves to take care of exceptional periods of reduced traffic, which would provide a workable and economical substitute for unemployment insurance. The stabilization of employ-

ment should operate to reduce this liability to a minimum.

These reserves should be created by an appropriation of surplus up to the amount estimated as necessary to maintain earnings of employees during periods of depression. In such periods hours of service could be reduced without reduction of earnings, with payment of added cost of employing same number of men for less traffic to be borne out of employment reserves. Thereby there would be no payments for idleness but increased payments for units of work—maintaining the total purchasing power with resulting public benefit.

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#### Immediate Measures

In line with the principles of the foregoing permanent program immediate measures to relieve present distress can be proposed.

1. Stabilize employment by assuring one year of employment to the necessary employees in every class. (This will increase the purchasing power of a pay roll exceeding \$2,000,000,000 by releasing over 1,250,000 workers from fear of unem-

ployment.) (a) This stabilization should include provisions for putting to work as many men as possible consistent with maintaining satisfactory conditions in the

respective classes of employment.

(b) The necessary stand-by forces should also be assured of a minimum amount

of part-time employment.

2. Since the 6-hour day is necessary and must be instituted to absorb the existing number of experienced employees without reduction of compensation. a commission should be created to determine the ways and means of applying this principle to the different classes of employees. Such a commission should be created by the nomination of an equal number of representatives of management and employees (including in the latter appropriate representatives of the principal classes of employment) with the designation of a chairman from its membership by the Interstate Commerce Commission. Any legislation necessary to establish the commission and to endow it with adequate authority to make a comprehensive study, as a basis for a report to be made within a definite period, should be sought by joint action so far as possible by the carriers and the employees.

3. Joint action should be undertaken between managements and employees to

promote

(a) One-billion-dollar United States bond issue for grade-crossing elimination on main traveled highways. One-half cost to be borne by Government as improvement of interstate highways. One-half cost to be borne by railroads to be repaid by payment of interest and sinking fund payment to retire bonds in 50 years.

(b) Regulation of motor transportation and freight forwarding companies;

including provision for employment of furloughed railroad employees.

(c) Protection of all interests in railroad consolidation.

(d) Federal legislation to provide retirement insurance and elective workmen's

compensation.

(e) Establishment of an emergency employment bureau to prepare the way for the eventual establishment of a national placement bureau and to provide means for placing unemployed rail workers as additional opportunities of employment may develop.

(f) Coordination of train crews and train lengths on the basis of economical,

safe operation—including any desirable State or Federal legislation.

4. In order to carry forward the foregoing program, a continuing cooperation between railroad managements and railroad employees is essential. This will require complete willingness and good faith of railroad managements in dealing with the self-chosen representatives of railroad labor, and whole-hearted compliance with the spirit and the letter of the railway labor act.

#### Awards and Decisions

#### Recent Decisions of Industrial Commission of Colorado

# Denial of Wage Reduction for Millmen in Denver

HE Industrial Commission of Colorado was notified, on November 14, 1931, by the Fleming Bros. Lumber Co., that the wages of its employees would be cut from 12½ to 20 per cent on December 14, 1931.

The secretary of Millmen's Union No. 1583 notified the commission

of a protest by the union against a reduction in wages.

At a hearing held December 11, 1931, the secretary of the union testified that the average earnings of the members in the employ of the company was 80 cents an hour, or \$6.40 a day.

On December 11, 1931, the commission disapproved the proposed reduction, and stated: "We do not believe that \$6.40 per day under present conditions is too high a wage for men engaged in skilled employments."

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## Wage Reduction of Sheet-Metal Workers Approved

Under date of November 2, 1931, an agreement was entered into between the General Contractors Association of Denver, Colo., and other recognized contractors and the Building Trades Council of Denver. By the terms of this agreement a general reduction in wages of 12½ per cent was to be made. A number of employers in Denver notified the Industrial Commission of Colorado of their intention to put this agreement into effect by reducing the wages of their sheetmetal workers 12½ per cent.

The Sheet-Metal Workers Union, Local No. 9, filed a protest against

the wage cut, and a hearing was held on January 5, 1932.

The commission, referring to the agreement of November 2, 1931, stated:

In the opinion of this commission this is one of the best agreements that has been entered into in a trade dispute for some time. In this agreement it was agreed between both the Building Trades Council and the Denver General Contractors that a general reduction in wages of 12½ per cent would be made. There are many parts of this contract that should receive the attention of both the employers and the employees and we recommend that they read this contract.

On January 5, 1932, the commission rendered the following award:

It is the award and decision of this commission that the petition of the employers for a 12½ per cent reduction in the wages of the sheet-metal workers be allowed, with the understanding that both the employees and the employers accept every part of the agreement entered into between the Denver General Contractors and the Building Trades Council of Denver under date of November 2, 1931, and that said agreement shall be binding on both employers and employees.

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## Building Permits in Principal Cities of the United States, January, 1932

BUILDING permit reports have been received by the Bureau of Labor Statistics of the United States Department of Labor from 345 identical cities having a population of 25,000 or over for the months of December, 1931, and January, 1932; and from 345 identical cities

for the months of January, 1931, and January, 1932.

The cost figures as shown in the following tables apply to the costs of the buildings as estimated by the prospective builder on applying for his permit to build. No land costs are included. Only building projects within the corporate limits of the cities enumerated are shown. The States of Illinois, Massachusetts, New York, New Jersey, and Pennsylvania, through their departments of labor, are cooperating with the Federal bureau in the collection of these data.

Table 1 shows the estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total building operations in 345 identical cities of the United

States, by geographic divisions.

TABLE 1.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 345 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN DECEMBER, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS

		esidential bu stimated cos			New		esiden imated	tial build l cost)	lings
Geographic division	December 1931	January 1932	· ce	Per nt of ange	Decem 1931				Per cent of change
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	4, 996, 716 1, 531, 727 1, 225, 685 1, 148, 123	5, 218, 1, 031, 697, 1, 501, 847,	855   -6551   -6560   +656   -6560   +	41. 1 +4. 4 32. 7 43. 1 30. 8 18. 6 17. 0	4 17, 795, 846 7 5, 227, 808 1 3, 064, 821 725, 010 6 4, 232, 745		\$1, 370, 452 11, 160, 002 4, 262, 487 910, 078 3, 112, 734 5, 221, 661 2, 630, 189		-43.8 -37.3 -18.5 -70.3 +329.3 +23.4 -38.3
Total	14, 751, 343	12, 800,	019 -	13. 2	37, 748	, 794	28,	667, 603	-24.1
		s, alterations (estimated c		T	otal cons	tructic cost)		imated	Num-
Geographic division	December, 1931	January, 1932	Per cent o change		\$5, 284, 187 \$3, 7 26, 898, 102 19, 9 7, 982, 485 6, 3 5, 236, 912 2, 0 2, 879, 186 5, 7 5, 768, 288 6, 8		Per cent of change  742, 288 -29. 2 900, 032 -26. 0 361, 543 -61. 1 718, 846 +98. 6 312, 825 -25. 4		ber of cities
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$831, 589 4, 105, 540 1, 222, 950 946, 406 1, 006, 053 493, 981 1, 403, 650	\$1, 184, 936 3, 521, 175 1, 067, 505 427, 788 1, 104, 462 769, 552 1, 366, 931	+42.8 -14.8 -12.7 -54.8 +9.8 +55.8 -2.6	26, 7, 5, 2, 5,					51 70 90 24 38 34 34
Total	10, 010, 169	9, 442, 349	-5.7	62,	510, 306	50, 90	9, 971	-18.6	345

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Permits issued in these 345 cities during the month of January 1932, indicate a projected expenditure of \$50,909,971, a decrease of 18.6 per cent as compared with the estimated cost of total building operations for which permits were issued during December, 1931. Decreases in the estimated cost of total building operations were shown in five of the seven geographic divisions. The smallest decrease (20.3 per cent) occurred in the East North Central States and the largest decrease (61.1 per cent) in the West North Central States. The South Central States and the South Atlantic States both registered increases, the increase in the South Atlantic States being nearly 100 per cent.

The estimated cost of new residential buildings decreased 13.2 per cent, comparing permits issued during the two months under discussion. Decreases were shown in five of the seven geographic divisions, ranging from 17.0 per cent in the Mountain and Pacific States to 43.1 per cent in the West North Central States. The Middle Atlantic

States and the South Atlantic States showed increases.

New nonresidential buildings decreased 24.1 per cent in estimated expenditures, comparing December, 1931, with January, 1932. All geographic divisions showed decreases in this class of structure, except the South Atlantic and the South Central. In the South Atlantic States there was an increase of over 300 per cent, due to large Federal building contracts in the city of Washington.

The estimated cost of additions, alterations, and repairs decreased 5.7 per cent, comparing January permits with December permits. Four geographic divisions showed decreases in this class of operation

and three showed increases.

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Table 2 shows the number of new residential buildings, of new non-residential buildings, of additions, alterations, and repairs, and of total building operations in 345 identical cities of the United States, by geographic divisions.

Table 2.—NUMBER OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 345 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN DECEMBER, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS

Communic division		sidential lings		residential dings		s, altera- d repairs	Total con	struction
Geographic division	December, 1931	January, 1932	December, 1931	January, 1932	December, 1931	January, 1932	December, 1931	January, 1932
New England	280 520 274 287 241	172 464 215 167 293	538 1, 160 1, 051 402 540	334 855 776 244 461	1, 253 2, 867 1, 693 613 1, 887	1, 066 3, 148 1, 562 557 2, 013	2, 071 4, 547 3, 018 1, 302 2, 668	1, 572 4, 467 2, 553 968 2, 769
South Central Mountain and Pacific	273 646	315 568	376 1, 007	433 884	1, 173 2, 791	1, 551 2, 829	1, 822 4, 444	2, 299 4, 281
Total Per cent of change	2, 521	2, 194 -13. 0	5, 074	3, 987 -21. 4	12, 277	12, 726 +3. 7	19, 872	18, 907 -4. 9

Permits were issued during January, 1932, for 18,907 building projects. This is 4.9 per cent less than the total number of building projects for which permits were issued during December, 1931. The number of new residential buildings decreased 13.0 per cent, and the number of new nonresidential buildings decreased 21.4 per cent, comparing these two months. The number of additions, alterations, and repairs, however, increased 3.7 per cent.

Table 3 shows the number of families provided for in the different kinds of housekeeping dwellings, together with the estimated cost of such dwellings, for which permits were issued in 345 identical cities in December, 1931, and January, 1932, by geographic divisions.

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TABLE 3.—ESTIMATED COST AND NUMBER OF FAMILIES PROVIDED FOR IN THE DIFFERENT KINDS OF HOUSEKEEPING DWELLINGS FOR WHICH PERMITS WERE ISSUED IN 345 IDENTICAL CITIES IN DECEMBER, 1931, AND JANUARY, 1932, BY GEO. GRAPHIC DIVISIONS

	1	1-family dv	wellings	11.17		2-family d	wellings	
Geographic division	Estima	ted cost	Famili vide	es pro-	Estimat	ted cost	Families fo	provided r
	December, 1931	January, 1932	December, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January,
New England	\$1, 281, 815 2, 056, 586 1, 354, 727 1, 047, 235 1, 017, 323 898, 180 2, 235, 320	\$819, 200 1, 925, 755 935, 951 637, 090 1, 215, 690 690, 608 1, 859, 205	241 350 251 274 225 252 574	149 316 206 158 279 285 513	\$228, 800 1, 186, 130 133, 000 70, 450 7, 800 108, 382 241, 045	\$117, 700 801, 600 40, 100 49, 500 26, 835 101, 160 214, 200	60 286 37 22 5 34 100	33 229 12 16 10 47
Total Per cent of change	9, 891, 186	8, 083, 499 -18. 3	2, 167	1,906 -12.0	1, 975, 607	1, 351, 095 -31. 6	544	-23, 2
	М	lultifamily	dwelling	S	Total, all	kinds of hou	sekeeping	dwelling
Geographic division	Estimat	ted cost		provide or	d Estim	ated cost	Families fo	provided or
de soume has	December, 1931	January, 1932	Decem- ber, 1931	Janu- ary, 193	December 1931	January, 1932	Decem- ber, 1931	Janu- ary, 1932
New England	\$425, 500 1, 639, 000 44, 000 8, 000 105, 000 35, 000 315, 050	\$250,000 2,471,500 55,500 11,000 259,125 56,000 242,300	143 428 16 4 46 17 139	76 799 11 4 84 25 108	9 4, 881, 716 1 1, 531, 727 4 1, 125, 685 1 1, 130, 123 5 1, 041, 562	5, 198, 855 1, 031, 551 697, 590 1, 501, 650 847, 768	1, 064 304 300 276 303	258 1, 341 226 178 377 351 698
Total Per cent of change	2, 571, 550	3, 345, 425 +30. 1	793	1, 107 +39. 6		12, 780, 019 -11. 5		3, 43 -2

During January, 1932, permits were issued for one thousand nine hundred and six 1-family dwellings to cost \$8,083,499. This is 12 per cent fewer families than were to be provided for as compared with the December permits, while the estimated cost of the buildings was 18.3 per cent less than the estimated cost of the 1-family dwellings for which permits were issued in December. The number of families to be provided for in 2-family dwellings decreased 23.2 per cent and their estimated cost 31.6 per cent, comparing January permits with December permits. In contrast, the number of families provided for in apartment houses increased 39.6 per cent, comparing these two periods. The indicated expenditures for apartment houses increased 30.1 per cent. The total number of families provided for decreased 2.1 per cent, comparing January, 1932, with December, 1931, and the projected expenditures for all classes of housekeeping dwellings decreased 11.5 per cent.

Table 4 shows the index number of families provided for and the index numbers of indicated expenditures for new residential buildings, new nonresidential buildings, additions, alterations, and repairs, and for total building operations.

These indexes are worked on the chain system with the monthly average of 1929 equaling 100.

TABLE 4.—INDEX NUMBERS OF FAMILIES PROVIDED FOR AND OF THE ESTIMATED COST OF BUILDING OPERATIONS AS SHOWN BY PERMITS ISSUED IN PRINCIPAL CITIES OF THE UNITED STATES, JANUARY, 1930, JANUARY AND DECEMBER, 1931, AND JANUARY, 1932

[Monthly average, 1929=100]

		Estimated cost of—						
Month	Families provided for	New residential buildings	New non- residential buildings	Additions, alterations, and repairs	Total build- ing opera- tions			
January 1931	34. 2	29. 4 30. 8	64. 3 43. 4	55. 1 55. 5	46.1			
December 1932	14.7	11.8	32.9	27.3	22.3			
January	14.4	10.2	25.0	25.8	18.			

The index number of families provided for and the index numbers of new residential buildings, new nonresidential buildings, additions, alterations, and repairs, and total building operations, were all lower for January, 1932, than for either January, 1930, January, 1931, or December, 1931.

Table 5 shows the number and value of contracts awarded for public buildings by the different agencies of the United States Government during the months of January and December, 1931, and January, 1932, by geographic divisions.

TABLE 5.—CONTRACTS LET FOR PUBLIC BUILDINGS BY DIFFERENT AGENCIES OF THE UNITED STATES GOVERNMENT DURING JANUARY AND DECEMBER, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS

C	Januar	y, 1931	Decemb	oer, 1931	January, 1932 1		
Geographic division	Number	Cost	Number	Cost	Number	Cost	
New England	4	\$42, 460	.7	\$299, 911	2	\$230, 653	
Middle Atlantic East North Central	12	3, 456, 619 211, 303	11	5, 145, 865 358, 476	10	965, 409 656, 323	
West North Central	3	117, 555	3	2, 682, 490	8	729, 218	
South Atlantic	21	2, 346, 752	28	406, 979	8	2, 377, 347	
South Central	21	427, 216 932, 679	15 29	767, 962 2, 248, 129	31	611, 72, 945, 614	
Total	77	7, 534, 584	102	11, 909, 812	86	6, 516, 290	

<sup>&</sup>lt;sup>1</sup> Subject to revision.

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During January, 1932, contracts were awarded by various Federal agencies for 86 building operations to cost \$6,516,290. The value of these awards were lower than for either January, 1931, or December, 1931. These contracts were issued by the following Federal agencies: Office of the Quartermaster General, War Department; Bureau of Yards and Docks, Navy Department; Supervising Architect, Treasury Department; United States Veterans' Bureau; Office of Public Buildings and Public Parks; and the Corps of Engineers, War Department.

Table 6 shows the value of contracts awarded by the different State governments for public buildings during the months of January and December, 1931, and January, 1932, by geographic divisions.

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TABLE 6.—CONTRACTS AWARDED FOR PUBLIC BUILDINGS BY THE DIFFERENT STATE GOVERNMENTS DURING JANUARY AND DECEMBER, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS

Geographic division	January, 1931	December, 1931	January, 1932 <sup>1</sup>
New England	\$44, 540 588, 293 268, 871 93, 029 246, 925 247, 000 164, 141	\$1, 627, 557 7, 835, 287 2, 308, 755 17, 348 383, 100 462, 172 217, 128	\$3, 659, 785 1, 380, 877 6, 730 668, 204 3, 891, 569 1, 289, 443
Total	1, 652, 799	12, 851, 347	10, 896, 608

<sup>1</sup> Subject to revision.

Contracts awarded by the various State governments during January, 1932, totaled \$10,896,608. This was lower than for December, 1931, but much higher than for January, 1931. Whenever a contract is awarded by the Federal Government or by a State government for a building in a city having a population of 25,000 or over, the number or cost of such building is included in the number and cost as shown in the several tables presented herewith.

TABLE 7.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 345 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN JANUARY, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS

		dential buildi mated cost)	ngs	New nonresidential buildings (estimated cost)			
Geographic division	January, 1931	January, 1932	Per cent of change	January, 1931	January, 1932	Per cent of change	
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$2, 906, 300 19, 122, 095 4, 253, 951 1, 261, 971 2, 245, 450 2, 996, 744 5, 521, 621	\$1, 186, 900 5, 218, 855 1, 031, 551 697, 590 1, 501, 650 850, 268 2, 313, 705	-59. 2 -72. 7 -75. 8 -44. 7 -33. 1 -71. 6 -58. 1	\$1, 206, 672 16, 628, 065 12, 328, 888 2, 372, 889 2, 800, 331 6, 318, 346 6, 593, 447	\$1, 370, 452 11, 160, 002 4, 262, 487 910, 078 3, 112, 734 5, 231, 161 2, 628, 284	+13. -32. -65.8 -61. +11. -17. -60.	
Total	38, 308, 132	12, 800, 519	-66.6	48, 248, 638	28, 675, 198	-40.	

		alterations, stimated cos		Total cons	timated	Num-	
Geographic division	January, 1931	January, 1932	Per cent of change	January, 1931	January, 1932	Per cent of change	ber of cities
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$1, 294, 491 9, 983, 829 2, 094, 252 463, 327 2, 635, 184 882, 285 1, 977, 655	\$1, 184, 936 3, 521, 175 1, 067, 505 427, 788 1, 104, 462 774, 102 1, 357, 581	-8. 5 -64. 7 -49. 0 -7. 7 -58. 1 -12. 3 -31. 4	\$5, 407, 463 45, 733, 989 18, 677, 091 4, 098, 187 7, 680, 965 10, 197, 375 14, 092, 723	\$3, 742, 288 19, 900, 032 6, 361, 543 2, 035, 456 5, 718, 846 6, 855, 531 6, 299, 570	-30. 8 -56. 5 -65. 9 -50. 3 -25. 5 -32. 8 -55. 3	51 70 93 24 38 35 34
Total	19, 331, 023	9, 437, 549	-51.2	105, 887, 793	50, 913, 266	-51.9	345

Table 7 shows the estimated cost of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs and of total building construction in 345 identical cities of the United States having a population of 25,000 or over, for the months of January, 1931, and January, 1932 by geographic divisions.

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There was a decrease in indicated expenditures for new residential buildings in each of the seven geographic divisions. These decreases ranged from 33.1 per cent in the South Atlantic States to 75.8 per cent in the East North Central States. The decrease for the 345 cities as a whole was 66.6 per cent. New nonresidential buildings decreased 40.6 per cent in estimated cost. Two geographic divisions showed increases in this class of construction and five divisions showed decreases, comparing permits issued in January, 1932, with those issued in January, 1931.

The indicated expenditures for additions, alterations, and repairs decreased 51.2 per cent. All seven geographic divisions showed decreases in this class of building operation.

Total construction decreased 51.9 per cent in estimated cost comparing January, 1932, with January, 1931. Each geographic division showed a decrease in indicated expenditures for total construction during this period.

Table 8 shows the number of new residential buildings, of new non-residential buildings, of additions, alterations, and repairs, and of total building operation in 345 identical cities having a population of 25,000 or over for January, 1931, and January, 1932.

TABLE 8.—NUMBER OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 345 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN JANUARY, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS

0 - 1 1 1 1 1 1	New residential buildings			residential lings	Addition tions, and		Total construction		
Geographic division	January, 1931	January, 1932	January, 1931	January, 1932	January, 1931	January, 1932	January, 1931	January, 1932	
New England	271 864 589 268 381 800	172 464 215 167 293 316	292 1, 050 1, 153 382 575 549	334 855 776 244 461 436	1, 004 2, 675 2, 171 628 2, 079 1, 578	1, 066 3, 148 1, 562 557 2, 013 1, 552	1, 567 4, 589 3, 913 1, 278 3, 035 2, 927	1, 572 4, 467 2, 553 968 2, 767 2, 304	
Mountain and Pacific	1, 065	567	1, 370	878	3, 467	2, 803	5, 902	4, 248	
Total	4, 238	2, 194 —48. 2	5, 371	3, 984 -25. 8	13, 602	12, 701 —6. 6	23, 211	18, 879 —18. 7	

Comparing January, 1932, permits with January, 1931, permits, decreases were shown in the number of new residential buildings, of new nonresidential buildings, of additions, alterations, and repairs, and of total construction.

Table 9 shows the number of families provided for in the different kinds of housekeeping dwellings, together with the cost of such dwellings, for which permits were issued in 345 identical cities during January, 1931, and January, 1932, by geographic divisions.

TABLE 9.—ESTIMATED COST AND NUMBER OF FAMILIES PROVIDED FOR IN THE DIFFERENT KINDS OF HOUSEKEEPING DWELLINGS FOR WHICH PERMITS WERE ISSUED IN 345 IDENTICAL CITIES IN JANUARY, 1931, AND JANUARY, 1932, BY GEO. GRAPHIC DIVISIONS

		1-family d	wellings			2-family d	wellings	
Geographic division	Estimat	ed cost		provided or	Estima	ted cost	Families provided for	
	January, 1931	January, 1932	January, 1931	January, 1932	January, 1931	January, 1932	January, 1931	January,
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$1, 370, 700 3, 672, 145 2, 668, 931 1, 001, 221 1, 742, 950 2, 081, 293 3, 633, 821	\$819, 200 1, 925, 755 935, 951 637, 090 1, 215, 690 693, 108 1, 857, 205	213 592 508 241 358 647 924	149 316 206 158 279 286 512	\$346, 200 1, 463, 700 497, 500 145, 250 59, 600 595, 806 499, 250	\$117, 700 801, 600 40, 100 49, 500 26, 835 101, 160 214, 200	86 373 108 38 28 205 181	33 226 12 16 16 47 74
Total Per cent of change	16, 171, 061	8, 083, 999 -50. 0	3, 483	1, 906 -45. 3	3, 607, 306	1, 351, 095 -62. 5	1, 019	418 -59. (
	M	Iultifamily	dwelling	S	Total, all	kinds of hou	sekeeping	dwelling
Geographic division	Estima	ted cost		provided or	Estima	ted cost	Families provided for	
	January, 1931	January, 1932	January, 1931	January, 1932	January, 1931	January, 1932	January, 1931	January 1932
New England Middle Atlantic East North Central West North Central South Atlantic South Central Mountain and Pacific	\$1, 189, 400 13, 486, 100 722, 520 115, 500 407, 900 319, 145 1, 106, 750	\$250, 000 2, 471, 500 55, 500 11, 000 259, 125 56, 000 242, 300	238 2, 781 237 40 188 140 433		\$2, 906, 300 18, 621, 945 3, 888, 951 1, 261, 971 2, 210, 450 2, 996, 244 5, 239, 821	\$1, 186, 900 5, 198, 855 1, 031, 551 697, 590 1, 501, 650 850, 268 2, 313, 705	537 3, 746 853 319 574 992 1, 538	25 1, 34 22 17: 37: 35 69
Total Per cent of change	17, 347, 315	3, 345, 425 -80. 7	4, 057	1, 107 -72. 7	37, 125, 682	12, 780, 519 -65. 6	8, 559	3, 43 -59.

The number of families provided for in 1-family dwellings, 2-family dwellings, multifamily dwellings, and the cost of such construction, all showed decreases, comparing permits issued in January, 1932, with those issued in January, 1931, in these 345 cities. The total number of families provided for in these cities decreased 59.9 per cent, comparing these two months, while the cost of the structures in which they were to be housed decreased 65.6 per cent.

Table 10 shows the estimated cost of new residential buildings, of new nonresidential buildings, of total building operations, together with the number of family dwelling units provided for in new buildings, in the 345 cities from which reports were received for both

December, 1931, and January, 1932.

No reports were received from New London (Conn.), Bangor (Me.), Marion (Ind.), Lima (Ohio), Pensacola (Fla.), Lynchburg (Va.), Lexington (Ky.), Port Arthur (Tex.), San Bernardino (Calif.), Butte (Mont.), and Everett (Wash).

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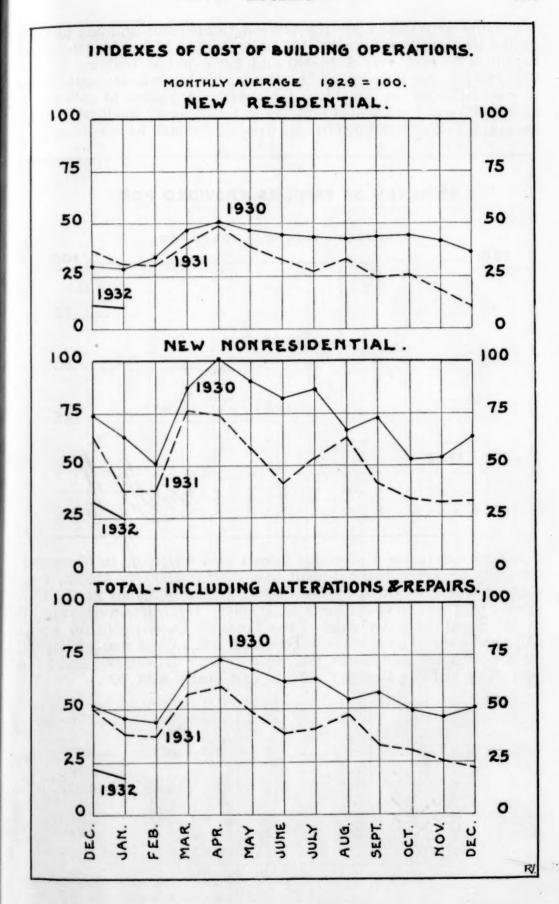
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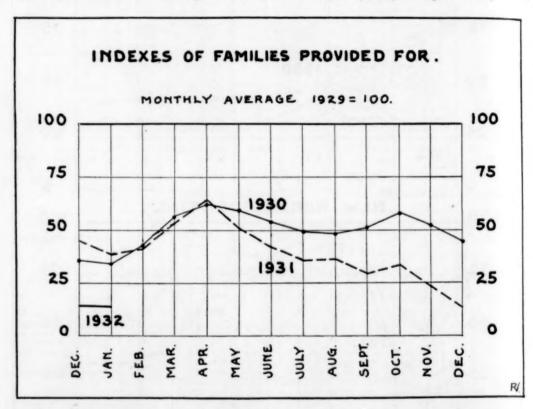
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Permits were issued for the following important building projects during the month of January, 1932: In Boston, Mass., for two school buildings to cost over \$316,000 and for a public building to cost \$350,000; in the Borough of the Bronx, for three apartment houses to cost \$620,000; in Brooklyn, for apartment houses to cost nearly \$1,500,000 and for a school building to cost over \$2,000,000; in Manhattan, for office buildings to cost over \$3,500,000; in Syracuse, for a



building at Syracuse University to cost over \$200,000; in Cleveland, for a city sewerage disposal plant to cost \$2,700,000; in Austin, Tex., contracts were awarded by the State for nine buildings at the University of Texas to cost nearly \$3,500,000. Contracts were awarded by the Supervising Architect of the Treasury Department for a post office and Federal courthouse in Topeka, Kans., to cost nearly \$650,000; for a post office in Atlanta, Ga., to cost over \$1,500,000; and for a post office in Long Beach, Calif., to cost nearly \$400,000.

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New England States

	New r	esidential h	ouilding	S				
State and city	Estimat	ed cost	Fam prov for in dwel	ided new	New nonr building mated co	s (esti-	Total construction, including altera- tions and repairs (estimated cost)	
	December, 1931	January, 1932	De- cem- ber, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January, 1932
Connecticut:								
Bridgeport	\$70, 300	\$56,300	21	18	\$7,574	\$4, 575	\$90, 572	\$81,705
Bristol	6,000	0	1	0	1, 225	550	11, 942	3, 340
Greenwich	24, 000	80,000	3	6	39, 900	4, 100	77, 950	128, 000
Hartford	76, 300	38, 800	15 7	9 2	5, 365 11, 850	373, 224 1, 702	113, 860 41, 915	592, 836 11, 652
Meriden New Britain	26, 200 51, 000	5, 500	7	ő	11, 890	800	69, 432	8, 877
New Haven	58, 000	40, 300	9	7	38, 275	35, 400	141, 245	99, 885
Norwalk	69, 500	38,000	11	9	11, 100	18, 100	96, 706	65, 305
Stamford	56,000	4, 500	9	2	7, 780	2, 475	83, 980	19, 975
Torrington	17,000	0	5	0	1, 350	5, 310	21, 125	10, 060
Waterbury	10, 500	6,000	2	2	12,000	700	24, 050	8, 700
West Hartford 1		305, 600		6		600		307, 980
Maine: Lewiston	0	7,000	0	2	0	6, 300	7,000	13, 300
Portland	35, 500	19, 300	5	4	3, 400	1, 135	47, 804	39, 085
Massachusetts:	00,000	20,000			-,	-,	,	20,100
Arlington 1		22, 500		3		0		23, 100
Beverly	20, 200	14, 800	5	3	1, 150	300	29, 200	24, 550
Boston 2		303, 000	151	78	1, 986, 402	735, 180	2, 644, 859	1, 295, 604
Brockton	24, 500 52, 000	21, 500 61, 500	6 3	7	1, 435 3, 450	1, 675 22, 000	32, 994 67, 065	30, 835 343, 075
Brookline	0	16, 000	0	4	2, 250	22,000	11, 200	40, 935
Chelsea		0	0	0	6,000	1,075	10, 508	3, 350
Chicopee	24, 000	5, 500	5 3	1	1, 175	1,700	28, 275	9, 400
Everett	10,000	0	3	0	675	7, 500	17, 075	7,850
Fall River	3, 500	4, 300	2	1	10, 885	475	21, 380	8, 390
Fitchburg	10, 700 2, 200	3, 000	2 2 2	1 0	1,000	2, 535 275	29, 000 6, 275	7, 385 2, 705
Haverhill Holyoke	2, 200	14,000	0	2	0	600	6, 850	15, 850
Lawrence	0	0	ő	2 0	14,650	450	16, 825	8, 250
Lowell	4,650	10,000	1	2	975	1,025	11, 250	14, 485
Lynn	19,000	4,000	5	1	7,000	7, 475	53, 140	40, 035
Malden	33, 865	19, 900	10	5	665	500	43, 257	30, 500
Medford New Bedford	35, 100	30, 500	7 0	7 0	6, 525 1, 700	1,750 725	45, 650 25, 250	34, 465 6, 175
Newton	160,000	106, 500	20	10	12,650	900	227, 565	115, 143
Pittsfield	37, 500	14, 800	10	2	97, 625	200	150, 025	25, 178
Quincy	65, 600	40, 800	17	11	10, 685	4, 475	87, 347	52, 181
Revere	4,000	0	1	0	0	750	7, 400	7, 975
Salem_ Somerville	5, 000	6,000	1	1	4, 375	32, 330	22, 025	43, 580
Somerville	F1 600	1 800	0	0	29, 635	3, 525	38, 585	6, 920
Springfield Taunton	51,600	1, 800 3, 700	14	1 3	9, 550	4, 775 1, 275	91, 260 3, 805	16, 650 22, 246
Waltham	6, 500	10, 500	1	2	1, 765	1, 225	12, 990	18, 748
Watertown	21,000	3,000	5	1	2,850	1,600	24, 225	5, 100
Worcester	67, 300	66, 300	14	15	17,000	3, 675	176, 930	96, 810
New Hampshire:							0	- 400
Concord	17 000	5, 500	0	4	1, 000 710	900	2, 535 35, 250	7, 400 34, 066
Manchester	17,000	18, 900	3	5	110	615	33, 230	34,000
Central Falls	. 0	0	0	0	1,022	0	1,572	1
Cranston	88, 700	36, 800	22	9	6, 225	2,050	98, 725	46, 05
East Providence	39, 000	4, 800	8	1	18, 325	1, 135	67, 225	13, 813
Newport	4, 500	5, 000	1	1	4, 100	7, 300	17, 771	15, 570
Pawtucket	116, 100	0 000	9	0	3, 160	650	122, 990	4, 130
Providence Woonsocket	97, 300	58, 800	21	15	15, 310 1, 250	63, 236 225	166, 378 1, 950	200, 374 3, 790
Vermont:	0	0	0	0	1, 200	220	1, 550	0, 19
Burlington 1		14, 500		. 2		. 0	~~~~~~	15, 100
Total	2, 016, 115	1, 186, 900	444	258	2, 436, 483	1, 370, 452	5, 284, 187	3, 742, 28
Per cent of change	2, 010, 113	-41.1	333	-41.9	2, 200, 200	-43, 8	0, 201, 101	-29.

<sup>&</sup>lt;sup>1</sup> Schedule received for the first time, January, 1932; not included in totals. <sup>2</sup> Applications filed.

#### Middle Atlantic States

	New	residential	buildin	gs				
State and city	Estima	ited cost	for in	nilies vided n new llings	New non building mated o		Total construction, including altera- tions and repairs (estimated cost)	
	December, 1931	January, 1932	De- cem- ber, 1931	Janu- ary, 1932	Decem- ber, 1931	January, 1932	December, 1931	January,
New Jersey:								
Atlantic City	\$5,000	\$1,500	1	1	\$500	0	\$25, 332	\$49,490
Bayonne Belleville	0	9,000	0	3	575	\$1,700	2, 425	16, 300
Bloomfield	18, 500 85, 000	10, 500 42, 000	17	3 9	3,900	1,610	23, 200	13,610
Camden	85,000	42,000	0	0	4, 000	1,500 17,000	99, 000 52, 234	46, 500
Clifton	68, 500	38,000	17	9	44, 419 10, 350	4, 900	84, 750	20, 432 45, 115
East Orange		13, 300	1	3	5, 225	1,050	26, 260	18, 244
Elizabeth	23, 000	15,000	5	3	1,800	2, 500	24, 800	17, 500
Garfield	3 500	0	1	0	400	825	10, 175	4, 575
Hackensack 1		10, 500		3		17, 363		74, 862
Hoboken	0	10,000	0	0	11 005	0	67, 510	11,070
Irvington Jersey City	38, 550 6, 500	12,000	8 2	3	11, 065	59, 820	61, 400	73, 220
Kearny	12,000	6,000	1	0 2	9, 650 3, 100	60, 685 9, 550	28, 100 15, 525	76, 735 21, 350
Montclair	41, 280	41, 500	3	4	14, 350	2, 825	69, 720	62, 325
Newark		96, 500	29	19	302, 522	26, 220	484, 798	386, 588
New Brunswick	8, 500	2, 500	2	1	50	13, 335	59, 125	18, 443
Orange	6, 536	0	1	0	0	5, 550	6, 536	8, 043
Passaic	4, 800	93 900	1 6	0	18, 150	650	35, 625	10, 030
Paterson Perth Amboy		23, 200	0	6	24, 200 2, 700	2, 900 2, 550	77, 600 4, 200	58, 880 9, 050
Plainfield.		45, 000	1	1	675	1, 250	6, 825	51, 150
Trenton	5, 000	13, 700	1	3	23, 560	10, 785	76, 288	34, 987
Union City	0	0	0	0	650, 000	0	654, 886	14,010
West New York	0	0	0	0	350	500	6, 933	12, 900
West Orange 1 New York:		58, 000		8		441, 248		499, 758
Albany	153, 100	145, 400	13	8	1,885	142, 450	203, 684	312, 295
Amsterdam	0	0	0	0	4, 860	15, 500	4, 860	15, 500
Auburn		4, 500	1	1	317, 605	475	373, 862	6, 285
Binghamton	8,400	21, 200	2	1	8, 320	5, 615	42, 390	70, 145
Buffalo	94, 700	84, 600	21	33	57, 925	157, 827	199, 735	293, 707
Elmira	0	9,000	0	2	3, 570	343, 370	16, 253	359, 715
Jamestown Kingston	7, 400 13, 300	10, 700	2 4	3	1,075	1, 125 190, 891	11, 950 24, 389	20, 065 202, 291
Lockport		5, 000	14	Ô	2, 425 52, 776	800	104, 576	6, 905
Mt. Vernon		10,000	0	i	2,775	13, 850	18, 937	37, 790
Newburgh	27, 300	0	4	0	1, 400	0	32, 550	21, 150
New Rochelle	77, 100	32, 400	5	5	1,850	4, 900	80, 500	43, 250
New York City:	851, 000	868, 790	176	259	415, 150	101 200	1, 622, 505	1 174 630
Brooklyn 2	1, 536, 000	2, 020, 000	376	576	7, 582, 003	2, 843, 740	9, 879, 756	5, 292, 876
Manhattan 3	0	0	0	0	116, 850	5, 699, 800	933, 126	6, 521, 250
Queens 2	749, 700	817, 900	169	215	674, 619	193, 668	2, 025, 375	1, 247, 445
Richmond 3	121, 400	156, 550	40	41	79, 555	12, 973	226, 817	602, 573
Niagara Falls	28, 400	13, 500	8	3	6, 799	14, 990	50, 449	38, 045
Poughkeepsie Rochester	56, 500 42, 100	37, 000	8 8	6 5	1, 263, 575 20, 400	6, 835	1, 330, 275 102, 915	42, 700 55, 445
Schenectady	73, 500	20, 850	14	0	7, 525	1, 350	90, 740	28, 474
Syracuse	45, 300	66, 200	10	13	24, 050	553, 507	124, 710	641, 462
Troy	72,600	50, 200	8	9	49, 750	2,010	135, 050	55, 455
Utica	43, 000	14, 000	8	2	750	750	45, 150	16, 775
Watertown	4, 500	4,000	1	1	2,750	5, 625	12, 265	18, 355
White Plains	37, 000	14,000	16	2 26	15, 300	1, 685 38, 695	71, 950	43, 360 226, 895
Yonkers Pennsylvania:	110, 000	166, 500	10	20	13, 021	99, 099	155, 416	220, 000
Allentown	2,000	10, 500	1	1	104, 039	184, 225	125, 389	235, 954
Altoona	5, 200	0	2	0	5, 013	1, 835	11, 978	9, 476
Bethlehem	0	0	0	0	1, 200	575	3,850	1, 725
Butler	0	0	0	0	4,000	0	4,000	17,000
Chester	0	10,000	0	0	1,600	1 200	7, 200	4,000
Easton	0	10, 000	0	1	275	1, 300 17, 675	13, 560	17, 600

<sup>&</sup>lt;sup>1</sup> Schedule received for the first time, January, 1932; not included in totals. 
<sup>2</sup> Applications filed.

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#### Middle Atlantic States—Continued

	New	residential	buildin	gs					
State and city	Estimated cost		for in	nilies vided n new ilings	building	New nonresidential buildings (esti- mated cost)		Total construction, including altera- tions and repairs (estimated cost)	
	December, 1931	January, 1932	De- cem- ber, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January, 1932	
Pennsylvania—Con. Harrisburg Hazleton Johnstown Lancaster McKeesport. Nanticoke Norristown Philadelphia Pittsburgh Reading Scranton Wilkes-Barre Wilkinsburg Williamsport York		\$8,500 9,000 6,800 0 24,500 92,200 20,000 22,475 12,090 11,000 5,000	0 1 2 3 0 1 1 2 0 1 16 1 16 1 1 1 0 1	0 0 0 2 0 2 3 0 3 19 2 4 4 4 3 0 2	\$545 30, 980 2, 350 12, 150 17, 050 0 750 540 677, 855 5, 041, 555 2, 550 4, 470 5, 200 0 2, 920 15, 150	\$8, 859 2, 990 695 0 325 0 1, 400 2, 662 127, 565 179, 300 35, 000 2, 175 3, 148 0 7, 507 1, 430	\$22, 930 39, 720 12, 650 31, 825 20, 165 1, 950 14, 550 3, 585 990, 985 5, 228, 317 39, 905 40, 015 28, 467 4, 700 4, 454 33, 785	\$46, 939 10, 338 2, 625 18, 750 4, 359 9, 000 8, 510 6, 752 421, 950 328, 495 71, 510 74, 465 20, 181 14, 026 15, 254 9, 809	
Total Per cent of change	4, 996, 716	5, 218, 855 +4. 4	1, 064	1, 341 +26. 0	17, 795, 846	11, 160, 002 -37. 3	26, 898, 102	19, 900, 032 -26. 0	

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Illinois:								
Alton	0	0	0	0	\$675	\$100	\$17,674	\$14,065
Aurora	\$4,500	0	1	0	16, 455	2, 985	25, 670	9, 985
Belleville	1,500	\$18,600	1	4	850	0	3, 850	19, 200
Berwyn	12,000	0	2	ō	710	400	13, 410	1, 900
Bloomington	2,000	2,000	ī	ĭ	0	2,000	3,000	4, 000
Chicago	90,000	86, 350	15	15	2, 420, 205	333, 835	2, 674, 988	596, 645
Cicero	0	0	0	0	4, 200	0	4, 200	60
Danville	0	0	ŏ	ő	9, 250	ő	16, 750	1, 825
Decatur	3,000	475	ĭ	1	10,600	1, 250	21, 660	5, 000
East St. Louis	2,500	4, 700	î	2	950	7, 375	7, 125	20, 425
Elgin	5,000	5,000	il	1	9,875	500	22, 177	6, 430
Evanston		3,000	2	Ô	7,500	1,000	59,000	22, 500
Granite City	20, 000	0	0		1,000	1,000	09,000	22, 300
Joliet.	0		0	0	3,000	0	14, 850	14 000
		5, 000					14, 800	14, 200
Maywood	0	0	0	. 0	79, 333	0	80, 608	1,000
Moline	15,000	4,000	3	1	465	300	20, 448	5, 448
Oak Park	18,000	0	1	0	402, 560	250	426, 060	1, 320
Peoria	91, 500	52, 800	14	13	783, 990	2, 200	882, 290	61,600
Quincy	4,600	0	2	0	84, 462	27, 772	91, 362	27, 842
Rockford	3,000	13, 000	1	3	4, 100	3, 050	14, 010	31, 900
Rock Island	4,000	4,000	1	1	480	0	6, 878	5, 553
Springfield	47, 805	32, 800	9	7	28, 617	8,755	85, 238	48, 947
Waukegan	26,000	6,000	7	1	10,800	1, 500	38, 120	10, 150
diana:								
Anderson	5, 200	3, 300	2	2	5, 525	1,750	13, 515	6, 300
East Chicago	0	0	0 1	0	180, 720	0	183, 998	1,700
Elkhart	2,000	7, 500	1	2	1, 515	90	4, 905	10, 041
Evansville	0	5, 900	0	2	25, 265	16, 370	28, 182	25, 571
Fort Wayne	5, 600	12,900	1	2 2	89, 934	12, 290	105, 761	38, 266
Gary	7,000	9,000	2	2	0	150	12, 550	9, 200
Hammond	5,000	0,000	ī	õ	747	200	14, 447	9, 900
Indianapolis	98, 950	60, 550	19	14	11,640	19, 306	138, 979	109, 939
Kokomo	0,000	00,000	0	0	440	3, 775	1, 271	7, 205
Lafavette	7,300	3, 500	4	2	0	0, 110	11, 100	3, 500
Michigan City	2,000	3,300	i	ő	50	120	5, 800	320
Mishawaka								
	1 000	4 800	0	0	1, 150	3, 505	1, 230	3, 755
Muncie.	1,000	4, 800	1	2	37, 622	1, 793	45, 243	11, 592
Richmond	0	0	0	0	2, 950	0	5, 800	2, 500
South Bend	0	7,000	0	1	1, 265	5, 785	7, 255	23, 205
Terre Haute	0	0	0	0	2,300	325	7,930	2, 849

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#### East North Central States-Continued

	New	residential	buildin	gs				
State and city	Estima	ted cost	prov for in	nilies rided n new llings	New non building mated o		Total construction, including alterations and repairs (estimated cost)	
	December, 1931	January, 1932	De- cem- ber, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January,
Michigan:								
Ann Arbor Battle Creek		\$17,800 4,860	0	2 5	\$1, 255 5, 800	\$300 10, 150	\$10, 556 13, 835	\$33, 540 20, 370
Bay City		2,500	0	1	56, 300	1, 122	58, 410	5, 92
Dearborn		23,000	5	4	2, 650	615	23, 350	24, 26
Detroit		95, 100	33	20	77, 523	179, 316	375, 085	358, 800
Flint.		7, 356	7 7	2	17, 839	10, 420	61, 231	24, 140
Grand Rapids		3,000	7	1	33, 125	15, 135	74, 355	23, 42
Hamtramck	0	0	0	0	650	0	1,625	3, 45
Highland Park	0 000	0	0	0	495	8,350	3, 220	12, 39
Jackson Kalamazoo	2, 800 5, 500	0	1 2	0	5, 565 4, 585	265 2, 925	8, 546 16, 502	2, 65
Lansing	5, 000	ő	1	0	28, 450	1,735	37, 550	13, 64
Muskegon		0	Ô	ő	575	125	8, 280	1, 26
Pontiac	Ö	Ö	0	ő	2, 235	490	3, 010	11, 06
Port Huron	2,050	Ö	2	Ö	300	500	5, 425	50
Royal Oak 1		0		0		680		68
Saginaw	8, 200	4, 500	2	2	625	950	9, 735	10, 06
Wyandotte	9, 200	1,800	2	1	159, 332	0	169, 362	4,70
hio:	0 000	15 000			4 000	0.000	.= 000	
Akron Aabtabula	8,800	15, 900	3	3	4,320	6, 300	17, 360	35, 21
AshtabulaCanton	19,000	0	2 0	0	1,308	2, 515	21, 218	2, 92
Cincinnati	272, 650	262, 760	48	0 52	1, 105 120, 845	225 104, 525	1, 905 447, 880	1, 54
Cleveland	77, 500	49, 500	15	10	46, 950	2, 752, 750	272, 925	516, 79 2, 901, 90
Cleveland Heights.	24, 200	27, 500	4	5	1, 330	1, 355	30, 265	98, 96
Columbus	12,000	18, 300	2	3	45, 450	32, 500	86, 800	83, 70
Dayton	36,000	14, 500	2 5	4	24, 144	13, 787	125, 327	40, 42
East Cleveland	0	0	0	0	350	2, 200	1,620	4, 33
Elyria	3,000	4, 500	1	1	905	2,075	5, 030	6, 67
Hamilton	4,000	3, 550	1	1 1	950	135	6, 945	5, 77
Lakewood	8, 500	4,000	2	1	10, 425	1,625	21, 909	8, 50
Lorain	12, 500	3,700	2 2 1	1	575	700	13, 075	4, 40
Mansfield	9,000	1, 200	0	1 0	400	60, 405	9, 910	62, 22
Marion	0	0	0	0	2, 150 76, 600	125	2, 900 76, 675	12
Middletown	0	4, 800	ő	1	34, 496	33, 746	35, 809	41, 42
Newark	3, 500	0	2	ô	3, 850	480	7, 350	95
Norwood	0	0	0 0	0	0	37, 300	650	38, 14
Portsmouth	0	0	0	0	75	0	370	50
Springfield	9,000	0	2	0	850	18, 325	11, 475	20, 20
Steubenville	0	0	0	. 0	6, 900	300	7,775	2, 05
Toledo	13,000	6, 700	1	3	88, 860	2, 476	281, 329	21,01
Warren	0	0	0	0	500	590	6, 455	3, 39
Youngstown	9, 800	0	2	0	2, 210	377, 527	16, 840	386, 67
Appleton	6,700	0	9	0	775	335	48, 375	2, 13
Eau Claire	19, 500	ő	2 4	ő	3, 550	14, 400	25, 367	14, 40
Fond du Lac	0	8, 500	ō	3	990	4, 905	4, 110	14, 90
Green Bay	6, 500	13, 500	2	3	13, 965	800	24, 890	19, 57
Kenosha	0	9,000	0	2	24, 245	1,080	28, 415	13, 28
Madison	31, 900	13, 500	7	2 3	34, 236	6, 352	68, 736	21, 97
Milwaukee	142, 150	47, 200	30	10	30, 910	32, 780	214, 164	132, 43
Oshkosh	13, 275	0	5	0	2, 540	265	23, 215	6, 2
Racine	7,000	5,000	1	1	1, 175	10, 750	13, 575	17, 30
Sheboygan	16, 500	4 000	3	0	995	725	22, 200	6, 76
Superior	0	4, 000 4, 850	0	1	1, 375	40, 285 6, 715	1, 980 250	83, 16 13, 36
West Allis	0	4, 000	U	1	0	0, 713	200	10, 30
Total	1, 531, 727	1, 031, 551 -32. 7	304	229 -24. 7	5, 227, 808	4, 262, 487 -18. 5	7, 982, 485	6, 361, 54 -20.

<sup>&</sup>lt;sup>1</sup> Schedule received for the first time, January, 1932; not included in totals.

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#### West North Central States

	New	ouildings				(Detail	notwo-4.	
State and city	Estimated cost		Families provided for in new dwellings		New nonresidential buildings (esti- mated cost)		Total construction, including altera- tions and repairs (estimated cost)	
	December, 1931	January, 1932	De- cem- ber, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January, 1932
Iowa: Burlington Cedar Rapids Council Bluffs Davenport. Des Moines Dubuque Ottumwa	1, 000 17, 000 74, 800	\$14, 250 1, 500 4, 000 16, 500 8, 200 7, 500	0 8 1 5 15 6	0 3 1 2 3 3 1	\$200 11, 332 1, 300 610 9, 185 2, 348 16, 500	\$500 1, 845 2, 300 3, 495 3, 435 28, 225 500	\$1, 250 59, 227 2, 800 22, 572 87, 710 34, 249 53, 600	\$1, 750 21, 205 9, 300 11, 737 66, 035 38, 427 27, 500
Waterloo Kansas:	17, 100	.,000	4	Ô	71, 835	2, 005	90, 165	13, 255
Hutchinson Kansas City Topeka Wichita Minnesota:	8, 900 4, 700 4, 700 23, 575	20, 000 4, 500 20, 000 12, 350	4 4 3 9	7 3 1 4	2, 620 2, 000 4, 615 15, 160	200 2, 980 643, 883 6, 485	11, 760 9, 175 24, 505 47, 443	21, 665 9, 655 667, 848 30, 260
Duluth Minneapolis St. Paul Missouri:	26, 500 354, 325 104, 160	4, 000 170, 685 83, 520	7 93 21	50 15	7, 520 855, 235 44, 696	13, 200 72, 460 240	65, 240 1, 247, 550 269, 827	29, 435 295, 865 119, 641
Joplin Kansas City Springfield St. Joseph St. Louis	3, 000 80, 500 9, 000 13, 500 170, 100	115, 500 11, 850 0 151, 500	2 23 2 5 44	0 27 5 0 41	5, 200 1, 710, 585 745 38, 980	1, 000 39, 000 5, 010 110 68, 200	7, 869 437, 800 1, 805, 190 18, 055 287, 135	3, 900 165, 000 23, 925 3, 180 393, 805
Nebraska: Lincoln Omaha	133, 100 94, 900	9, 100 37, 200	10 24	2 8	3, 295 101, 410	2, 390 5, 300	140, 755 210, 285	17, 588 45, 275
North Dakota: Fargo	20, 500	0	5	0	500	0	28, 800	4, 580
South Dakota: Sioux Falls	13, 125	5, 435	4	1	158, 950	7, 315	273, 950	14, 625
Per cent of change	1, 225, 685	697, 590 -43. 1	300	178 -40. 7	3, 064, 821	910, 078 -70. 3	5, 236, 912	2, 035, 456 -61. 1
		South	Atla	ntic S	tates			
Delaware:					1			
Wilmington District of Columbia:	\$16, 800	\$8,000	4	2	\$20, 665	\$276, 100	\$49, 736	\$315, 711
Washington Florida:	578, 500	953, 500	118	193	280, 488	774, 505	1, 016, 546	2, 004, 240
Jacksonville Miami Orlando St. Petersburg Tampa		17, 825 10, 650 5, 500 3, 000 7, 800	12 9 0 1 3	13 9 2 3 4	9, 105 11, 200 2, 720 1, 300 24, 340	26, 595 19, 220 0 700 4, 215	94, 860 90, 395 9, 105 41, 244 50, 778	62, 710 55, 285 10, 791 11, 400 32, 373
Georgia; Atlanta Augusta Columbus Macon	24, 900 3, 390 3, 500	48, 400 3, 925 2, 500 300	12 4 3 1	16 4 1 1	10, 057 1, 454 475 900	1,719,408 2,280 1,250 700	69, 073 10, 131 9, 287 45, 331	1, 802, 517 19, 208 7, 545 5, 309
Savannah Maryland:	16, 200	480	5	1	1,100	260	17, 400	3, 565
Baltimore Cumberland Hagerstown	168, 000 0 4, 500	222, 000 0 8, 000	29 0 3	50 0 2	138, 200 725 445	136, 900 1, 470 655	668, 000 1, 675 5, 270	803, 500 17, 871 11, 855
North Carolina: Asheville Charlotte Durham Greensboro High Point Raleigh Wilmington Winston-Salem	2, 400 22, 050 4, 900	35, 900 1, 900 3, 150 0 600 0	2 4 2 2 7 5 4 1	0 7 2 3 0 1 0	125 90 2, 000 36, 285 9, 375 12, 555 7, 200 445	255 3, 190 0 1, 745 3, 975 785 0 965	7, 110 28, 511 8, 720 73, 314 31, 375 21, 555 33, 300 22, 684	4, 020 45, 631 3, 525 12, 272 4, 450 1, 895 39, 000 21, 625
South Carolina; Charleston Columbia Greenville Spartanburg	5, 500 29, 100 11, 550 0	3, 300 4, 950 9, 000 0	2 9 3 0	5 1 0	21, 350 81, 510 1, 125 1, 000	800 1,630 0 3,650	31, 842 144, 045 14, 340 2, 055	12, 531 17, 738 19, 350 9, 852

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#### South Atlantic States-Continued

	New	residential	buildin	gs			m	No.
State and city	Estimated cost		Families provided for in new dwellings		New nonresidential buildings (esti- mated cost)		Total construction including alter tions and repair (estimated cost)	
	December, 1931	January,	De- cem- ber, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January 1932
Virginia:								
Newport News Norfolk Petersburg Portsmouth Richmond	22, 500 3, 200 0 11, 000	\$9, 450 58, 900 0 17, 300 24, 300	2 8 2 0 4	6 14 0 6 7	\$1, 165 3, 900 40 850 19, 867	\$2, 164 25, 572 80 575 26, 528	\$11, 319 58, 835 3, 240 6, 725 64, 883	\$16, 5 98, 8 5 21, 3 75, 6
Roanoke West Virginia:	16, 000	22, 125	4	8	503	2, 305	22, 666	31, 5
Charleston Clarksburg Huntington	1, 500	1,500 0 700 3,000	10 1 0	1 0 1	8, 439 400 1, 225 8, 287	1, 580 475 2, 248 59, 696	81, 094 2, 500 3, 535 17, 257	13, 9 2, 5 5, 2
Parkersburg Wheeling		3, 000 13, 695	0	5	8, 287 4, 100	59, 696 10, 260	17, 257 9, 450	72, 2 24, 5
Total	1, 148, 123	1, 501, 650	276	373	725, 010	3, 112, 734	2, 879, 186	5, 718, 8
Per cent of change		+30.8		+35. 1		+329.3		+98
		South	h Cent	ral St	ates			
Alabama:							1	1
Birmingham		\$13, 960 5, 900	3 6	9 3	\$3,650 27,075	\$6,775 4,100	018, 840 43, 897	\$54,0
Mobile Montgomery Arkansas: Little Rock	14, 800	5, 900 7, 900 5, 500	6 11	8	27, 075 2, 135 867, 806	4, 100 1, 035	43, 897 26, 335 892, 287	17, 8 23, 5
Little Rock Kentucky:	8,000	5, 500	5	2	867, 806	1, 775	892, 287	18, 6
Ashland		1,000	0	1 0	135, 845	600 610	3, 700 140, 320	5, 4 7, 9
Louisville	67, 500	14, 500	7	5	28, 790	32, 800	106, 615	85, 8
Newport Paducah		0	0	0	20, 400 11, 500	400 850	23, 100 14, 500	5,8
Louisiana: Baton Rouge	11, 300	5, 700	3	5	655	468	18, 947	17, 7
New Orleans	33, 550	75, 043	14	14	11, 505	9, 046	92, 194	145, 9
Shreveport Mississippi:		5, 100	4	2	372, 432	375	389, 296	20, 5
JacksonOklahoma:		19, 815	5	8	0	0	12, 173	
Enid Muskogee 1	11, 100	2,500	3	0	485	3,000 9,500	14, 760	
Oklahoma City	76, 000	44, 700	11	12	751, 889	9, 500 713, 435	833, 499	16, 5 798, 5
Okmulgee Tulsa	60, 840	6, 100	0 13	0 2	150 6, 937	236, 855	150 82, 203	
Γennessee:	1					17, 440		
Chattanooga Johnson City		15, 000 1, 000	2	6	12, 700 4, 500	27, 000	68, 025 5, 800	86, 7 1, 0
Knoxville	4,800	17, 340	2	5	5, 220	28, 560	15, 780	48, 5
Memphis	6, 500	30, 550	5	12	13, 910	10, 660	104, 000	106, 4
Nashville		19, 950	5	12	1, 364, 500	34, 375	1, 392, 653	
Amarillo		5, 685	11	5	8,791	15, 600	43, 241	22, 9
Austin Beaumont	24, 039 1, 000	86, 010 7, 100	22	43 2	49, 813 1, 462	3, 392, 458 1, 768	81, 924 40, 499	3, 511, 6
Brownsville 1		2,000		1		0		4, 6
Dallas El Paso	64, 000 9, 700	84, 925	29	41	230, 895 4, 085	28, 980	366, 740 17, 175	
Fort Worth	9, 700 178, 550	68, 884	3 21	29	4, 085 43, 825	8, 480 18, 815	17, 175 255, 963	118, 7
Galveston	18, 950	29, 865	8	13	62, 723	13, 109	87, 521	58,7
Houston	273, 650	186, 000	66	66	73, 500	119, 887	354, 040	316,
San Angelo	77, 218	7, 350 59, 191	41	35	1, 060 336, 313	35, 692	2, 675 445, 591	
Waco	5, 000	23, 700	4	12	2, 765	48, 713	9, 115	79,
Wichita Falls	0	0	. 0	0	0	408, 000	4, 465	
Total.	1, 041, 562	847, 768 -18. 6	303	357 +17. 8	4, 232, 745	5, 221, 661	5, 768, 288	0.000

<sup>1</sup> Schedule received for the first time, January, 1932; not included in totals.

TABLE 10.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS, AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 345 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN DECEMBER, 1931, AND JANUARY, 1932, BY GEOGRAPHIC DIVISIONS—Continued

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#### Mountain and Pacific States

	New	residential	buildin	gs			m-t-1	
State and city	Estima	prov for in	rided n new lings	New nonresidential buildings (esti- mated cost)		Total construction, including altera- tions and repairs (estimated cost)		
	December, 1931	January, 1932	De- cem- ber, 1931	Janu- ary, 1932	December, 1931	January, 1932	December, 1931	January, 1932
Arizona:						mult		ult u
Phoenix	\$36, 500	\$38,000	10	9	\$115, 340	\$1,903	\$158, 220	\$46,718
Tucson	13, 900	10, 240	8	7	2,800	1,900	31, 678	23, 005
California:	23,003				-		,	,
Alameda	7,000	10, 400	2	2	1,465	838	19, 475	18, 822
Alham bra		31,000	14	8	275	725	46, 075	39, 400
Bakersfield	9 100	7 950	3	2	2, 190	89, 505		104, 668
Berkeley	9, 100 13, 200	7, 950 41, 900	5	13	1, 235	14,715	27, 500 30, 756	79, 87
	13, 750	10, 150	6	4	3,750	160, 585	51, 963	196, 286
Fresno				25		8, 225		115, 94
Glendale	222, 800	97, 250	44		11, 400	400	245, 525	
Huntington Park 1.	07 750	9,300		3 22	070 007		905 105	12, 756 636, 333
Long Beach	87, 550	65, 800	32		270, 365	522, 242 692, 632	385, 125 2, 674, 723	1 000, 00
Los Angeles		757, 735	357	257	1, 150, 501	092, 032	2, 0/4, 723	1, 884, 67
Oakland	104, 250	107, 150	30	28	29, 280	83,770	198, 367	242, 54
Pasadena	72, 400	53, 700	11	12	225, 173	68, 218	320, 759	148, 536
Riverside		9,900	5	4	61, 285	100, 832	95, 824 114, 887	119, 473 97, 613
Sacramento	62, 500	60, 450	13	9	23, 860	10, 075	114, 887	97, 613
San Diego	139, 300	98, 650	39	38	132, 558	44, 483	416, 914	205, 493
San Francisco	346, 750	399, 450	84	103	242, 472	231, 966	729, 240	730, 50
San Jose		32, 335 34, 800	6	7 7	18, 600	215, 010	67, 180	268, 07
Santa Ana	8, 500	34, 800	8	7	3, 400	20, 463	17, 318 151, 381	60, 20 13, 25
Santa Barbara	28,950	2,000	8	1	118, 601	1,905	151, 381	13, 25
Santa Monica	39, 876	21, 800	12	11	38, 484	70	81, 240	31, 38
Stockton		28, 000	7	5	430, 313	4, 385	458, 578	46, 15
Vallejo		0	1	0	0	680	5, 554	6, 87
Colorado:								1
Colorado Springs	3, 300	6, 875	3	2	2, 150	5, 442	8, 430	16, 16
Denver	111, 500	155, 000	26	29	33, 340	30, 800	182, 990	297, 93
Pueblo	0	6, 200	0	3	855	5, 405	5, 755	14, 87
Montana:		0, 200			000	0, 200	0,100	,0
Great Falls	12,900	0	3	0	150	750	17,900	5, 88
New Mexico:	12,000				100		21,000	0,00
Albuquerque	24, 500	12,000	10	4	18, 955	5, 450	57, 015	24, 60
regon:	23,000	12,000	10		10,000	0, 200	0,,010	24,00
Portland	64, 450	46, 050	15	14	1, 197, 453	201, 460	1, 363, 855	399, 84
		3, 570	0	4	660	35	5,042	10, 73
SalemUtah:	0	0,010	0	.3	000	00	0,012	10, 10
		0	0	0	700	0	1 000	10 50
Ogden Salt Lake City	0					2, 325	1, 200	16, 50
		0	6	0	19, 146	2, 323	75, 049	25, 98
Washington: Bellingham		0.000			14 000		04 010	0.00
Bellingham	7,500 111,250	8,800	3	5	14, 900	0	24, 910	9,96
Seattle	111, 250	126, 550	40	46	42, 200	72, 520	250, 012 42, 016	285, 00
Spokane	16, 400	16,000	4	5	7,620	1,350	42, 016	23, 81
Tacoma	14, 000	16,000	4	9	44, 605	29, 525	98, 690	65, 71
						0 -00		
Total	2, 791, 415	2, 315, 705	813	695	4, 266, 081	2, 630, 189	8, 461, 146	6, 312, 82
er cent of change		-17.0		-14.5		-38.3		-25.

#### Hawaii

	1			1				
Honolulu Per cent of change	\$107, 387	\$111,754 +4.1	39	65 +66. 7	\$167, 391	\$232, 200 +38. 7	\$288, 617	\$358, 279 +24. 1

<sup>&</sup>lt;sup>1</sup> Schedule received for the first time, January, 1932; not included in totals.

## Building Permits in Principal Cities, 1931: General Summary

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THE Bureau of Labor Statistics presents in this article summary data as to building permits for 311 identical cities having a population of 25,000 or over, for which reports were received for the

calendar years 1930 and 1931.

In studying the following tables it should be borne in mind that the costs shown include the costs of the buildings only; no land costs are included. The costs are as stated by the prospective builder in applying for his permit to build. Reports cover only the corporate limits of the cities enumerated. The States of Illinois, Massachusetts, New York, New Jersey, and Pennsylvania, through their departments of labor, are cooperating with the Bureau of Labor Statistics in the collection of these data.

Table 1 shows the estimated cost of new residential buildings, new nonresidential buildings, additions, alterations, and repairs, and of total building operations in 311 identical cities of the United States having a population of 25,000 or over, by geographic divisions, for

the calendar years 1930 and 1931.

TABLE 1.—ESTIMATED COST OF NEW BUILDINGS, OF ADDITIONS, ALTERATIONS AND REPAIRS, AND OF TOTAL BUILDING CONSTRUCTION IN 311 IDENTICAL CITIES, AS SHOWN BY PERMITS ISSUED IN 1930 AND 1931, BY GEOGRAPHIC DIVISIONS

	Ne	w residential	buildings					
Geographic division	Estima	ted cost	Families for in dwel	new	New nonresidential buildings, estimated cos			
	1930	1931	1930	1931	1930	19	31	
New England. Middle Atlantic. East North Central West North Central. South Atlantic. South Central. Mountain and Pacific.	\$46, 241, 528 250, 055, 101 123, 125, 354 31, 448, 130 37, 971, 134 48, 245, 833 88, 813, 906	\$36, 447, 870 206, 090, 707 51, 068, 272 23, 589, 173 40, 241, 944 27, 444, 163 56, 924, 447	7, 211 48, 641 20, 480 7, 210 7, 609 13, 673 25, 679	6, 757 44, 837 10, 234 6, 198 8, 644 8, 439 16, 950	308, 847, 779 190, 442, 12 53, 331, 94 74, 347, 35 79, 662, 66	9 253, 3 129, 4 42, 4 50, 4 52,	998, 899 145, 275 912, 385 823, 966 334, 018 817, 954 555, 087	
Total. Per cent of change, 1930 to 1931	625, 900, 986	441, 806, 576 -29. 4	130, 503	102, 059 -21. 8			48, 587, 584 -26. 3	
Geographic division	Additions, and repair cost	Total c	eonstruct	ion, estimate	ed cost	Num- ber		
	1930	1931	1930		1931	Per cent of change	of cities	
New England	\$27, 074, 582 98, 536, 667 47, 642, 176 15, 480, 609 23, 562, 663 16, 843, 397 31, 225, 184	\$19, 617, 078 77, 597, 736 33, 794, 882 11, 156, 682 21, 533, 385 11, 183, 257 22, 185, 572	\$148, 918 657, 430 361, 200 100, 260 135, 881 144, 751 217, 685	9, 547 9, 653 0, 683 1, 151 1, 894	\$118, 063, 847 536, 833, 718 214, 775, 539 77, 569, 821 112, 109, 347 91, 445, 374 136, 665, 106	-20, 7 -18, 3 -40, 5 -22, 6 -17, 5 -36, 8 -37, 2	49 67 78 24 34 31 28	
Total Per cent of change, 1930 to 1931	260, 365, 278	197, 068, 592 -24, 3	1, 766, 14	4, 666 1	, 287, 462, 752	-27, 1	311	

Permits issued in these 311 cities during the calendar year 1931 indicate an expenditure for total building operations of \$1,287,462,752. This is 27.1 per cent less than the estimated cost of all building operations in these cities during the calendar year 1930. Decreases

in total building operations were shown in each of the seven geographic divisions, ranging from 17.5 per cent in the South Atlantic States to 40.5 per cent in the East North Central States.

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There was a decrease in the estimated cost of new residential buildings in these 311 cities of 29.4 per cent, comparing the year 1931 with the year 1930. The South Atlantic was the only geographic division showing an increase in residential buildings. The decreases in the other six geographic divisions ranged from a low of 17.6 per cent in the Middle Atlantic States to a high of 58.5 per cent in the East North Central States.

Estimated expenditures for new nonresidential buildings decreased 26.3 per cent in 1931, as compared with 1930. The seven geographic divisions each showed decreases in this class of structure. The smallest decrease, 18.0 per cent, was shown in both the New England and Middle Atlantic States. The highest decrease, 41.1 per cent, was shown in the Mountain and Pacific States.

Estimated costs of additions, alterations, and repairs decreased 24.3 per cent, comparing the year 1931 with the year 1930. Decreases occurred in each of the seven geographic divisions. The South Atlantic States showed the smallest percentage of decrease, 8.6, while the South Central States showed the largest percentage of decrease, 33.6.

Table 2 shows the value of contracts awarded for public buildings by the different agencies of the United States Government and by the different State governments for the calendar year 1931, by geographic divisions.

Table 2.—CONTRACTS FOR PUBLIC BUILDINGS LET BY THE UNITED STATES GOVERNMENT AND BY STATE GOVERNMENTS, CALENDAR YEAR 1931, BY GEOGRAPHIC DIVISIONS

	Contract	s let by—
Geographic division	Federal Gov- ernment	State govern- ments
New England	\$10, 980, 717 25, 829, 946	\$10, 562, 680 45, 525, 601
East North Central	24, 900, 101	8, 445, 942
West North Central South Atlantic	8, 322, 441 35, 889, 204	5, 489, 203 4, 415, 778
South Central	17, 425, 064 17, 755, 172	4, 617, 261 4, 876, 424
Total	141, 102, 645	83, 932, 889

During the calendar year, 1931, the agencies of the Federal Government from which reports were received awarded contracts for building operations to cost \$141,102,645. The contracts were issued by the following Federal agencies: United States Capitol Architect; Bureau of Yards and Docks, Navy Department; Supervising Architect, Treasury Department; United States Veterans' Bureau; and the Office of Public Buildings and Public Parks. The contracts awarded by the various State governments during the year 1931 totaled \$83,932,889.

The cost of contracts by the Federal Government or by State governments for buildings in cities having a population of 25,000 or over is included in Tables 1 and 3.

Table 3 shows the estimated cost of new residential buildings, new nonresidential buildings, and total building operations, together with the number of families provided for in each of the 311 cities for the calendar years 1930 and 1931.

Reports were received from 49 cities in the New England States; from 67 cities in the Middle Atlantic States; from 78 cities in the East North Central States; from 24 cities in the West North Central States; from 34 cities in the South Atlantic States; from 31 cities in the South Central States; and from 28 cities in the Mountain and Pacific States.

TABLE 3.—ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDEN.
TIAL BUILDINGS, TOTAL CONSTRUCTION, AND FAMILIES PROVIDED FOR, 1930
AND 1931, BY CITY

Mon	Em al	land	States
New	Engl	ana	Diates

	New r	esidential b	uilding	ZS.				
State and city	Estima	ted cost	Fam prov for in dwel	new	Estimated cost of new nonresidential buildings		Estimated cost of total construction, including alter- ations and repairs	
	1930	1931	1930	1931	1930	1931	1930	1931
Commentions								
Connecticut: Bridgeport	\$1, 447, 475	\$1, 723, 750	353	449	\$732, 573	\$570, 370	\$2, 618, 360	\$9 752 254
Greenwich		1, 191, 500	203	104	769, 605	633, 000	4, 335, 820	
Hartford	623, 300	546, 100	61	116	4, 299, 898	2, 986, 675	6, 364, 738	
Meriden	282, 900	212, 850	64	45	327, 122	879, 343	817, 396	
New Britain	313, 600	170, 700	42	27	406, 310	678, 344	896, 082	
New Haven	1, 587, 800	2, 729, 150	238	166	13, 621, 153	6, 153, 846	15, 924, 143	
New London	456, 680	294, 500	70	56	2, 605, 555	1, 960, 873	3, 138, 116	
Norwalk	1, 296, 750	941, 650	165	160	736, 222	120, 108	2, 365, 723	1, 443, 818
Stamford	971, 100	685, 700	109	108	1, 292, 545	150, 140		1, 035, 450
Waterbury Maine:	474, 100	322, 700	101	80	1, 217, 324	656, 202	2, 037, 374	1, 186, 827
Bangor	155, 100	216, 600	46	62	377, 650	213, 387	560, 375	465, 262
Lewiston	151, 000	158, 700	31	39	1, 010, 600	97, 925		335, 575
Portland		404, 510	110	93	690, 586	598, 581	1, 567, 156	
Massachusetts:					,		_,,	2, 20 2, 200
Boston 1		7, 462, 760		1,796	12, 927, 294	21, 454, 786	26, 906, 300	33, 968, 003
Brockton		368, 050	69	76	417, 720	278, 864	1, 113, 417	829, 989
Brookline		1, 229, 500	231	93	952, 460	506, 565	3, 687, 061	
Cambridge	5, 547, 143	1, 057, 850	159	137	4, 402, 047	3, 201, 639		
Chelsea Chicopee		76, 700 106, 800	6 57	16 31	108, 895	179, 375		
Everett		148, 900	53	45	115, 360 1, 185, 385	421, 689 1, 189, 001	354, 935 1, 532, 490	590, 314
Fall River		28, 700	33	9	856, 786	515, 499	1, 188, 691	697, 105
Fitchburg	108, 500	66, 950	22	18	732, 950	25, 361	879, 320	
Haverhill	111, 975	45, 600	38	22	108, 835	225, 800	340, 860	
Holyoke	208, 000	188, 000	37	24	1, 205, 620	401, 800	1, 702, 995	
Lawrence	70, 000	67, 100	19	14	307, 137	526, 523	617, 922	
Lowell	179, 900	203, 450	42	41	581, 530	261, 280		
Lynn		707, 985	103 99	122	1, 924, 066	433, 320		1, 520, 597
Malden Medford	453, 500 1, 280, 200	602, 465 1, 403, 500	249	147 315	498, 305 247, 660	195, 007 719, 875	1, 133, 275 1, 656, 066	
New Bedford	123, 000	82, 500	15	14	654, 593	210, 750		471, 230
Newton	3, 666, 400	3, 348, 450	346	368	1, 223, 298	1, 193, 002	5, 870, 127	
Pittsfield	994, 150	758, 250	185	157	678, 118	481, 379	1, 854, 171	1, 623, 300
Quincy	1, 187, 125	891, 600	288	224	1, 204, 848	416, 035		
Revere	233, 500	124, 500	58	32	163, 950	53, 435		279, 67,
Salem	330, 600	389, 100	56	68	426, 415	186, 310		
Somerville	1 200 600	197, 700	49	51	932, 877	560, 805		
Springfield Taunton	1, 200, 600 95, 650	798, 275 45, 750	284	192	3, 719, 508 56, 719	1, 769, 350 189, 241	5, 703, 263 596, 841	2, 948, 114 385, 62
Waltham	577, 900	433, 850	124	84	1, 085, 110	174, 665		856, 76
Watertown	437, 100	603, 500	84	98	437, 270	1, 127, 590		1, 840, 40
Worcester			294	225	3, 437, 872	3, 716, 175	6, 341, 063	5, 591, 79
New Hampshire:					100000			
ManchesterRhode Island:	250, 260	185, 450	86	68	270, 925	333, 985		
Central Falls	65, 500	38, 100	22	11	58, 680	17, 892	164, 545	
Cranston East Providence	1, 222, 300 728, 775	1, 008, 800 459, 825	273 133	227 92	291, 470 301, 065	597, 198 372, 051	1, 596, 555 1, 273, 938	1, 668, 848 990, 858
Newport	563, 600	205, 900	45	45	302, 410	268, 220	1, 186, 545	
Pawtucket	679, 600	464, 150	149	75	833, 745	304, 680		
Providence	3, 073, 500	1, 681, 000	446	282	4, 720, 480	3, 620, 519	10, 742, 334	7, 912, 69
Woonsocket	62, 350	66, 500	22	16	144, 220	170, 439	311, 816	318, 69
M-4-1 37 T							-	
Total, New Eng-	46 241 500	26 447 970	7 911	8 757	75 600 766	61 000 000	149 019 970	119 002 94
Per cent of change	40, 241, 528	36,447,870 $-21,2$	1, 211	6,757 $-6.3$	10, 002, 100	~-18.0	148, 918, 876	-20.
or come or change		41. 2		0. 0		-10, 0		20.

<sup>&</sup>lt;sup>1</sup> Applications filed.

TABLE 3.—ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDENTIAL BUILDINGS, TOTAL CONSTRUCTION, AND FAMILIES PROVIDED FOR, 1930 AND 1931, BY CITY—Continued

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#### Middle Atlantic States

	New re	sidential bu	ilding	S				
State and city	Estimat	ed cost	Fam provi for in dwell	new	Estimated new nonr buildings	esidential	including	cost of struction, g altera- l rerepairs
,	1930	1931	1930	1931	1930	1931	1930	1931
ew Jersey:	\$149, 150	\$216, 673	29	50	\$264, 615	<b>\$</b> 130, 327	\$1,400,607	\$842,991
Atlantic City Bayonne	230, 800	35, 500	104	16	448, 050	299, 373	791, 750	447, 774
Bloomfield	1, 483, 500	1, 010, 500	344	213	733, 500	465, 200	2, 460, 000	1, 557, 300
Camden	486, 900	124, 300	159	52	1, 651, 272	816, 315	2, 582, 097	1, 130, 140
Clifton	1, 088, 150	911, 500	247	208	336, 770	301, 679	1, 492, 435	1, 296, 519
East Orange	504, 900 842, 000	253, 450 628, 000	85 222	157	1, 694, 938 1, 514, 900	726, 656 1, 714, 900	2, 383, 900	1, 411, 280 2, 347, 900
Hoboken	27, 500	100,000	4	40	280, 025	239, 810	827, 763	567, 297
Irvington	449, 850	442, 112	102	99	1, 164, 780	975, 373	1, 700, 480	
Jersey City	888, 000	605, 800	238	183	10, 407, 265	690, 146	12, 167, 252	1, 990, 778
Kearny	404, 000	267, 300	103	67	393, 427	458, 398	842, 832	758, 993
Montelair	930, 950	1, 094, 440	750	99 357	654, 170 6, 657, 138	2 612 017	1, 939, 867 12, 379, 194	1, 387, 100
ewarkew Brunswick	3, 542, 190 97, 400	1, 701, 300 99, 833	750	16	630, 590	2, 612, 017 40, 856	970, 260	6, 455, 993 407, 532
ange	662, 500	85, 856	96	9	567, 620	119, 268	1, 527, 847	487, 271
ssaic	163, 500	57, 500	24	12	1, 526, 972	208, 935	2, 098, 698	604, 165
terson	583, 500	417, 750	139	99	722, 619	557, 630	2, 088, 193	
rth Amboy	144, 950 656, 334	97, 570 719, 550	32 81	20 92	853, 227 727, 842	48, 674 375, 711	1, 245, 477 1, 643, 295	237, 587 1, 341, 833
enton	203, 700	404, 150	38	50	1, 810, 527	1, 471, 767	2, 448, 741	2, 420, 861
nion City	170,000	115, 000	41	57	487, 300	733, 698	887, 265	
st New York	16,000	36, 800	2	14	114, 700	19, 800	241, 025	181, 798
ork:	0 004 700	1 010 100	211	017	4 700 555	2 070 000	0 004 070	0 000 001
anysterdam	2, 834, 700 128, 000	1, 916, 490 100, 200	311 26	217 17	4, 720, 555 838, 175	3, 279, 082 82, 565	9, 004, 273 991, 900	6, 060, 801 219, 815
burn	496, 150	173, 200	39	28	567, 290	2, 860, 801	1, 134, 013	
ghamton	677, 130	370, 675	161	90	1,003,563	108, 008	2, 255, 199	969, 397
ffalo	3, 493, 465	3, 212, 475	1,072	1,029	9, 975, 375	5, 102, 529	14, 824, 861	9, 338, 432
estown	740, 150 415, 962	135, 917 144, 700	40 93	32 36	864, 424 152, 260	778, 533 441, 380	1, 826, 173 782, 854	1, 099, 546 739, 769
gston		232, 400	41	52	453, 115	640, 527	862, 132	
ount Vernon	2, 922, 900	2, 095, 100	481	303	679, 713	1, 394, 530		
wburgh	153, 850	104, 800	23	18	844, 417	1, 350, 458	1, 217, 847	1, 536, 445
v Rochellev York—	3, 112, 646	2, 788, 050	191	228	1, 698, 479	641, 121	5, 668, 994	4, 340, 041
The Bronx 1	29, 348, 900	35, 937, 452	7, 012	8, 537	19, 563, 659	25, 606, 925	56, 115, 642	65, 399, 250
Brooklyn 1	41, 545, 100				18, 761, 510	19, 334, 126	70, 631, 906	75, 534, 443
Manhattan 1	59, 269, 000				107, 533, 888		198, 445, 431	
Queens 1 Richmond 1	44, 779, 260	53, 985, 538	10, 495	12, 716		15, 352, 899	77, 343, 961	76, 754, 035
goro Folle	005 775	3, 684, 090 707, 290	218	1,061 164	3, 156, 563 1, 900, 533	2, 764, 736 172, 860	3 735 648	7, 805, 281 1, 249, 013
ighkeepsie	351, 900	484, 000	48	66	63, 582	1, 929, 395		2, 572, 308
chester	2, 356, 940	1, 192, 400	262	166	4, 252, 329	4, 227, 737	8, 011, 253	6, 303, 172
enectady	1, 351, 300	477, 975	169	90	3, 481, 290	433, 055	5, 338, 906	1, 299, 668
y	2, 501, 900 542, 250	1, 345, 300 1, 236, 090	432 99	260 121	1, 709, 818 2, 239, 961	4, 007, 180 682, 755	5, 398, 534	6, 999, 959 2, 201, 274
Ca	563, 350	425, 250	99	82	517, 821	466, 023		
tertown	58, 800	93, 325	14	22	147, 005	37, 030	434, 825	266, 121
ite Plains	3, 138, 100	2, 010, 369	297	276	2, 466, 249	4, 032, 530	6, 179, 319	6, 334, 160
nkers	7, 078, 600	6, 937, 165	1,042	1,021	2, 037, 532	2, 520, 710	9, 887, 352	10, 013, 918
sylvania: llentown	858, 400	277, 200	97	45	750, 855	427, 569	2, 270, 422	968, 261
ltoona	477, 550	129, 871	75	35	616, 503	465, 150		745, 356
ethlehem	379, 125	220, 700	69	35	531, 770	120, 375	1, 065, 400	
utler	63, 075	13, 100	21	4	78, 000	31, 650		
hesteraston	124, 400	49,000	34	19		563, 275		681, 320
ie	244, 700	59, 167 888, 900	15 209	221	121, 007 1, 287, 461	58, 238 944, 874		184, 867 2, 711, 048
rrisburg	845, 750	848, 958	77	55		631, 637		
azleton	210, 512	94, 718	27	22	177, 944	348, 691	498, 278	548, 771
hnstown	91, 800	70, 050	18	16		418, 460		
ancasterebanon	634, 300	106, 400	43	28	489, 705	165, 643		
cKeesport	143, 400 442, 400	105, 500 281, 150	12 83	29 54	528, 525 317, 608	31, 900 177, 878		
ew Castle	325, 000	153, 250	49			47, 315		
orristown.	479, 200	199, 295	80	36	633, 255	440, 795	1, 331, 052	781, 978
iladelphia	8, 902, 100				34, 850, 059	26, 006, 815	53, 141, 770 20, 729, 727	35, 265, 216
ittsburgh	6, 620, 135	4, 050, 735	1 340	919	U GAS SOSI	12 578 887	211, 729, 727	11M 306 13!

TABLE 3.—ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDEN. TIAL BUILDINGS, TOTAL CONSTRUCTION, AND FAMILIES PROVIDED FOR, 1930 AND 1931, BY CITY—Continued

### Middle Atlantic States—Continued

	New r	esidential b	uilding	zs				
State and city	Estimated cost		Families provided for in new dwellings		Estimated cost of new nonresidential buildings		total construction including alter tions and repair	
	1930	1931	1930	1931	1930	1931	1930	1931
Pennsylvania—Con. Reading Scranton Wilkes-Barre Wilkinsburg Williamsport York	\$740, 250 373, 125 152, 602 392, 750 247, 000 278, 300	281, 924 71, 174 143, 500 73, 930	119 49 39 79 36 56	49 63 37 31 20 45	\$1, 190, 406 2, 061, 820 1, 225, 594 217, 714 860, 117 1, 020, 718	587, 712 751, 057 77, 040 386, 203	3, 189, 548 1, 668, 716 842, 215 1, 278, 302	1, 377, 650 1, 170, 036 347, 217 618, 553
Total, Middle At- lantic Per cent of change	250, 055, 101	206, 090, 707 —17. 6	48, 641	44, 837 -7. 8	308, 847, 779	253, 145, 275 -18, 0		<b>536</b> ,833,718

#### East North Central States

\$377, 623 411, 594 481, 850 374, 000 25, 871, 750 373, 300 199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	\$160, 073 181, 002 283, 070 130, 000 6, 624, 630 155, 300 62, 600 280, 600 280, 600 288, 940 551, 000 334, 800 259, 750	82 107 68 2,741 57 47	140	\$432, 017 715, 296 241, 952 278, 648 54, 615, 250 533, 641 85, 835 1, 476, 245 542, 310	821, 035 58, 500 427, 430	1, 401, 762 748, 892 700, 648	1, 404, 17 421, 616 711, 700 66, 693, 556 1, 070, 903 280, 95
411, 594 481, 850 374, 000 25, 871, 750 373, 300 199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	181, 002 283, 070 130, 000 6, 624, 630 155, 300 62, 600 280, 600 366, 204 228, 940 551, 000 334, 800	82 107 68 2, 741 57 47 79 207 72	35 81 26 966 23 18 45 140	715, 296 241, 952 278, 648 54, 615, 250 533, 641 85, 835 1, 476, 245	1, 032, 065 110, 960 557, 700 54, 121, 650 821, 035 58, 500 427, 430	1, 401, 762 748, 892 700, 648 85, 749, 167 1, 117, 349 378, 347	1, 404, 17 421, 616 711, 700 66, 693, 556 1, 070, 903 280, 95
481, 850 374, 000 25, 871, 750 373, 300 199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	283, 070 130, 000 6, 624, 630 155, 300 62, 600 280, 600 366, 204 228, 940 551, 000 334, 800	107 68 2,741 57 47 79 207 72	81 26 966 23 18 45 140	241, 952 278, 648 54, 615, 250 533, 641 85, 835 1, 476, 245	110, 960 557, 700 54, 121, 650 821, 035 58, 500 427, 430	748, 892 700, 648 85, 749, 167 1, 117, 349 378, 347	421, 610 711, 700 66, 693, 550 1, 070, 903 280, 95
374, 000 25, 871, 750 373, 300 199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	130, 000 6, 624, 630 155, 300 62, 600 280, 600 366, 204 228, 940 551, 000 334, 800	2, 741 57 47 79 207 72	26 966 23 18 45 140	278, 648 54, 615, 250 533, 641 85, 835 1, 476, 245	557, 700 54, 121, 650 821, 035 58, 500 427, 430	700, 648 85, 749, 167 1, 117, 349 378, 347	711, 70 66, 693, 55 1, 070, 90 280, 95
25, 871, 750 373, 300 199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 70 455, 300 1, 832, 550	6, 624, 630 155, 300 62, 600 280, 600 366, 204 228, 940 551, 000 334, 800	2,741 57 47 79 207 72	966 23 18 45 140	54, 615, 250 533, 641 85, 835 1, 476, 245	54, 121, 650 821, 035 58, 500 427, 430	85, 749, 167 1, 117, 349 378, 347	66, 693, 55 1, 070, 90 280, 95
373, 300 199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	155, 300 62, 600 280, 600 366, 204 228, 940 551, 000 334, 800	57 47 79 207 72	23 18 45 140	533, 641 85, 835 1, 476, 245	821, 035 58, 500 427, 430	1, 117, 349 378, 347	1, 070, 90 280, 95
199, 693 408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	62, 600 280, 600 366, 204 228, 940 551, 000 334, 800	47 79 207 72	18 45 140	85, 835 1, 476, 245	58, 500 427, 430	378, 347	280, 95
408, 900 696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	280, 600 366, 204 228, 940 551, 000 334, 800	79 207 72	45 140	1, 476, 245	427, 430		280, 95
696, 430 354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	366, 204 228, 940 551, 000 334, 800	207 72	140			1, 991, 015	701 10
354, 050 939, 000 590, 500 530, 770 455, 300 1, 832, 550	228, 940 551, 000 334, 800	72		549 210			
939, 000 590, 500 530, 770 455, 300 1, 832, 550	551, 000 334, 800		4.4	012, 010	584, 884	1, 364, 613	1, 052, 46
590, 500 530, 770 455, 300 1, 832, 550	334, 800	63	44	245, 758	236, 015	735, 716	611, 25
590, 500 530, 770 455, 300 1, 832, 550	334, 800		36	1, 308, 250	1, 928, 500	3, 103, 450	3. 251. 25
530, 770 455, 300 1, 832, 550			50	1, 415, 915	357, 119		1 024 86
455, 300 1, 832, 550		112	61	660, 158	122, 689	1, 381, 154	506, 96
1, 832, 550	331, 400			1, 203, 350			
1, 002, 000		55			797, 450	1, 861, 455	
004 400	1, 176, 780	408	259	1, 152, 840	931, 212	3, 436, 495	
624, 400	64, 700	68	24	373, 474	1, 358, 505	1, 031, 674	
1, 233, 200	277, 700	341	73	997, 560	70, 037	2, 907, 530	
454, 100	177, 750	132	52	158, 141	249, 229	1, 328, 208	593, 93
654, 150		151	156	2, 063, 963			
				_,,	-,,	-, -, -,	.,,
400, 550	152 570	51	43	131 844	42 100	610 169	311, 71
150 026							
202 440						1, 501, 140	004, 90
203, 440						321, 214	290, 98
057, 000							
1, 554, 425							
519, 800							982, 88
596, 580	155, 480	152	40	1, 077, 611	3, 059, 498	1, 875, 733	3, 314, 47
2, 737, 430	2,006,800	615	399	3, 447, 740	6, 535, 572	7, 451, 293	9, 338, 80
49, 070						262 965	245, 67
33 550							
159 967							
202, 207							
223, 030							
1, 390, 950							
188, 000	50, 250	50	18	281, 890	53, 492	686, 610	227, 50
1							
271, 300	106, 200	72	27	3, 590, 215	573, 290	3, 963, 605	742, 17
306, 500	196, 000	54	57	505, 342	835, 165	1, 269, 864	1, 618, 96
22, 755, 238	10, 569, 547	4.084					
1 664 663	740 804						
861 900	300 100						
70 700						2, 921, 970	1, 197, 20
78, 700	0,000					1, 298, 530	120, 78
337, 000	8, 500						
286, 500							
	238, 000	102	65	466, 451	684, 859	1, 171, 550	1, 084, 82
000. 100	175, 975	137	43	1, 157, 696	801, 767	2, 064, 747	1, 209, 05
234, 450	76, 800	81	28				
175, 340				1.000,720			341, 39
73 550				39 565			
500 517							405 05
300, 317	151, 700	199	99	1, 708, 201	222, 962	2, 690, 423	485, 27
	***	-					
4, 919, 330						8, 776, 754	1, 938, 71
105, 900	61,850	29	17	153, 730	100, 708	344, 835	219, 02
501, 500	102, 250	95	21	874, 674	359, 865	1, 585, 196	639, 94
15, 273, 482	6, 691, 790	1.693	1, 235	16, 252, 970	12, 521, 445	33, 160, 600	21, 467, 20
	454, 100 654, 150 400, 550 159, 026 203, 440 667, 050 1, 554, 425 519, 800 596, 580 2, 737, 430 49, 070 33, 550 123, 050 1, 390, 950 188, 000 271, 300 306, 500 271, 300 306, 500 27, 755, 238 1, 664, 663 861, 900 78, 700 286, 500 468, 725 533, 189 234, 450 175, 340 73, 550 566, 517 4, 919, 330	654, 150 670, 687  400, 550 152, 570 159, 026 11, 200 203, 440 72, 900 667, 050 366, 685 1, 554, 425 739, 450 519, 800 198, 300 596, 580 155, 480 2, 737, 430 2, 006, 800 49, 070 11, 500 33, 550 19, 380 152, 267 76, 300 223, 050 92, 000 1, 390, 950 216, 025 188, 000 216, 025 271, 300 106, 200 306, 500 196, 000 22, 755, 238 740, 804 391, 300 399, 100 78, 700 6, 000 337, 000 8, 500 286, 500 94, 075 468, 725 238, 000 175, 340 10, 000 73, 750 66, 800 175, 340 10, 000 73, 550 99, 525 566, 517 151, 760  4, 919, 330 514, 775 105, 900 51, 750	654, 150 670, 687 151  400, 550 152, 570 51 159, 026 11, 200 37 203, 440 72, 900 43 667, 050 366, 685 174 1, 554, 425 739, 450 313 519, 800 198, 300 131 596, 580 155, 480 152 2, 737, 430 2, 006, 800 47 33, 550 19, 380 18 152, 267 76, 300 47 223, 050 92, 000 76 1, 390, 950 216, 025 193 188, 000 50, 250 50  271, 300 106, 200 72 306, 500 196, 000 54 1, 684, 663 399, 100 22, 755, 238 10, 569, 547 1, 664, 663 399, 100 23, 750 94, 075 61 468, 725 238, 000 102 533, 189 175, 975 234, 450 76, 800 81 175, 340 10, 000 50 73, 550 99, 525 32 566, 517 151, 760 193 4, 919, 330 514, 775 372 105, 900 61, 850 29	654, 150 670, 687 151 156  400, 550 152, 570 51 43 159, 026 11, 200 37 3 203, 440 72, 900 43 16 657, 050 366, 685 174 97 1, 554, 425 739, 450 313 155 519, 800 198, 300 131 56 596, 580 155, 480 152 40 2, 737, 430 2, 006, 800 615 399 49, 070 11, 500 17 4 33, 550 19, 380 18 12 152, 267 76, 300 47 34 223, 050 92, 000 76 251, 390, 950 216, 025 193 188, 000 50, 250 50 18  271, 300 106, 200 72 27, 755, 238 10, 569, 547 4, 084 2, 135 1, 664, 663 740, 804 380 128 27, 755, 238 10, 569, 547 4, 084 2, 135 1, 664, 663 740, 804 380 128 337, 000 8, 500 5 1 286, 500 94, 075 61 17 488, 725 238, 000 102 65 533, 189 175, 975 137 43 234, 450 76, 800 81 28 175, 350 99, 525 32 47 566, 517 151, 760 193 58  4, 919, 330 514, 775 372 105 105, 900 61, 850	654, 150         670, 687         151         156         2, 063, 963           400, 550         152, 570         51         43         131, 844           159, 026         11, 200         37         3         1, 447, 418           203, 440         72, 900         43         16         209, 814           667, 050         366, 685         174         97         675, 959           1, 554, 425         739, 450         313         155         1, 065, 377           519, 800         198, 300         131         56         334, 360           596, 580         155, 480         152         40         1, 077, 611           2, 737, 430         2, 068, 800         615         399         3, 447, 740           49, 070         11, 500         17         4         92, 329           33, 550         19, 380         18         12         236, 375           152, 267         76, 300         47         34         172, 132           223, 050         92, 000         76         25         321, 340           1, 390, 950         216, 025         193         54         1, 995, 485           188, 000         50, 250         50         18 <td>654, 150 670, 687 151 156 2, 063, 963 1, 147, 014  400, 550 152, 570 51 43 131, 844 42, 100 159, 026 11, 200 37 3 1, 447, 418 513, 318 203, 440 72, 900 43 16 299, 814 127, 698 667, 050 366, 685 174 97 675, 959 519, 800 198, 300 131 56 334, 360 634, 120 596, 580 155, 480 152 40 1, 077, 611 3, 059, 498 2, 737, 430 2, 006, 800 615 399 3, 447, 740 6, 535, 572 49, 070 11, 500 17 4 92, 329 95, 574 33, 550 19, 380 18 12 236, 375 51, 665 152, 267 76, 300 47 34 172, 132 262, 074 223, 050 92, 000 76 25 321, 340 493, 800 1, 390, 950 216, 025 193 54 1, 995, 485 962, 364 188, 000 50, 250 50 18 281, 890 53, 492  271, 300 106, 200 72 27 3, 590, 215 573, 290 306, 500 196, 000 54 57 505, 342 835, 165 22, 755, 238 10, 569, 547 4, 084 2, 135 19, 074, 600 8, 739, 477 1, 664, 663 740, 804 360 231 113 1, 151, 835 402, 150 337, 000 8, 500 5 1 179, 225 36, 135 286, 500 94, 075 61 17 108, 750 225, 948 468, 725 238, 000 102 65 466, 451 684, 859 234, 450 76, 800 81 28 721, 382 307, 002 175, 340 10, 000 50 6 170, 720 261, 040 73, 550 99, 525 32 47 32, 566, 517 151, 760 193 58 1, 758, 291 4, 919, 330 514, 775 372 105 298, 455 566, 205 105, 900 61, 850 29 177 153, 730 100, 706</td> <td>654, 150         670, 687         151         156         2, 063, 963         1, 147, 014         3, 179, 424           400, 550         152, 570         51         43         131, 844         42, 100         610, 162           159, 026         11, 200         37         3         1, 447, 418         513, 318         1, 801, 145           203, 440         72, 900         43         16         209, 814         127, 698         527, 274           667, 050         366, 685         174         97         675, 959         9589, 622         1, 761, 184           1, 554, 425         739, 450         313         155         1, 065, 377         2, 132, 909         3, 099, 086           519, 800         198, 300         131         56         334, 360         634, 120         1, 176, 840           596, 580         155, 480         152         40         1, 077, 611         3, 059, 498         1, 875, 733           2, 737, 430         2, 066, 800         615         399         3, 447, 740         6, 535, 572         7, 451, 293           49, 070         11, 500         17         4         92, 329         95, 744         262, 965           1, 309, 950         216, 025         193         <td< td=""></td<></td>	654, 150 670, 687 151 156 2, 063, 963 1, 147, 014  400, 550 152, 570 51 43 131, 844 42, 100 159, 026 11, 200 37 3 1, 447, 418 513, 318 203, 440 72, 900 43 16 299, 814 127, 698 667, 050 366, 685 174 97 675, 959 519, 800 198, 300 131 56 334, 360 634, 120 596, 580 155, 480 152 40 1, 077, 611 3, 059, 498 2, 737, 430 2, 006, 800 615 399 3, 447, 740 6, 535, 572 49, 070 11, 500 17 4 92, 329 95, 574 33, 550 19, 380 18 12 236, 375 51, 665 152, 267 76, 300 47 34 172, 132 262, 074 223, 050 92, 000 76 25 321, 340 493, 800 1, 390, 950 216, 025 193 54 1, 995, 485 962, 364 188, 000 50, 250 50 18 281, 890 53, 492  271, 300 106, 200 72 27 3, 590, 215 573, 290 306, 500 196, 000 54 57 505, 342 835, 165 22, 755, 238 10, 569, 547 4, 084 2, 135 19, 074, 600 8, 739, 477 1, 664, 663 740, 804 360 231 113 1, 151, 835 402, 150 337, 000 8, 500 5 1 179, 225 36, 135 286, 500 94, 075 61 17 108, 750 225, 948 468, 725 238, 000 102 65 466, 451 684, 859 234, 450 76, 800 81 28 721, 382 307, 002 175, 340 10, 000 50 6 170, 720 261, 040 73, 550 99, 525 32 47 32, 566, 517 151, 760 193 58 1, 758, 291 4, 919, 330 514, 775 372 105 298, 455 566, 205 105, 900 61, 850 29 177 153, 730 100, 706	654, 150         670, 687         151         156         2, 063, 963         1, 147, 014         3, 179, 424           400, 550         152, 570         51         43         131, 844         42, 100         610, 162           159, 026         11, 200         37         3         1, 447, 418         513, 318         1, 801, 145           203, 440         72, 900         43         16         209, 814         127, 698         527, 274           667, 050         366, 685         174         97         675, 959         9589, 622         1, 761, 184           1, 554, 425         739, 450         313         155         1, 065, 377         2, 132, 909         3, 099, 086           519, 800         198, 300         131         56         334, 360         634, 120         1, 176, 840           596, 580         155, 480         152         40         1, 077, 611         3, 059, 498         1, 875, 733           2, 737, 430         2, 066, 800         615         399         3, 447, 740         6, 535, 572         7, 451, 293           49, 070         11, 500         17         4         92, 329         95, 744         262, 965           1, 309, 950         216, 025         193 <td< td=""></td<>

TABLE 3.—ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDENTIAL BUILDINGS, TOTAL CONSTRUCTION, AND FAMILIES PROVIDED FOR, 1930 AND 1931, BY CITY—Continued

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#### East North Central States-Continued

	New re	sidential b	uilding	S			T-414-3	
State and city	Estimat	ed cost	Fami provi for in dwell	ded new	Estimated new nonr buildings	residential		struction, g altera-
	1930	1931	1930	1931	1930	1931	1930	1931
Ohio—Continued. Cleveland. Columbus Dayton East Cleveland Hamilton Lakewood Lima Lorain Mansfield Marion Newark Portsmouth Springfield Steubenville Toledo Warren Youngstown Zanesville	3, 188, 400 913, 775 712, 200 361, 950 1, 039, 800 276, 050 437, 850 49, 800 75, 900 158, 650 409, 500 300, 500 1, 454, 435 310, 245 729, 405	\$2, 592, 700 1, 678, 700 746, 812 5, 000 90, 900 469, 800 9, 200 103, 925 450, 050 3, 000 48, 350 3, 800 188, 650 101, 800 612, 500 123, 675 362, 750 50, 125	1, 176 575 213 56 81 248 11 83 97 14 29 31 19 68 372 93 163 39	511 300 173 1 23 88 3 30 81 1 20 2 40 28 135 30 84 20	\$21, 037, 067 1, 413, 650 4, 259, 166 85, 689 937, 064 369, 398 867, 947 334, 373 158, 767 537, 925 126, 070 168, 496 245, 180 406, 570 6, 367, 638 171, 845 1, 678, 782 97, 414	\$4, 614, 674 1, 156, 750 1, 735, 663 730, 937 283, 163 273, 670 12, 380 137, 619 246, 885 12, 360 114, 250 411, 250 411, 250 411, 250 411, 835 1, 886, 314 101, 835 459, 054 274, 928	777, 155 835, 345 10, 404, 771	3, 369, 450 2, 895, 432 761, 906 467, 472 797, 424 100, 294 278, 019 744, 446 24, 308 176, 600 451, 459 1, 193, 852 203, 344 2, 294, 985 334, 833
Wisconsin: Fond du Lac	422, 150 757, 030 1, 086, 050 6, 961, 332 233, 955	144, 325 474, 600 153, 100 710, 300 4, 319, 900 150, 833 298, 400 369, 900 76, 400	37 113 78 179 1,729 60 174 98 47	42 141 20 135 929 52 47 76 23	113, 431 706, 235 569, 843 935, 361 11, 880, 438 334, 541 2, 533, 968 574, 019 680, 460	176, 234 289, 045 351, 565 384, 272 5, 388, 843 460, 075 1, 288, 254 433, 561 130, 135	1, 483, 907 2, 34 <sup>-</sup> , 852 25, 285, 322 746, 297 3, 924, 208 1, 407, 165	712, 335 1, 756, 596
Total, East North Central Per cent of change		51, 068, 272 -58. 5	20, 480	10, 234 -50. 0	190, 442, 123	129, 912, 385 -31. 8	361, 209, 653	214 775 539 -40. 8
		West Nor	th Ce	ntral	States		-	
Iowa: Burlington Cedar Rapids Council Bluffs Davenport Des Moines Dubuque Ottumwa Sioux City Waterloo	345, 700 111, 000 1, 501, 490 1, 106, 895 319, 986 214, 800 2, 015, 500	\$65, 725 470, 005 119, 500 485, 920 1, 226, 595 202, 977 243, 400 782, 950 446, 975	62 48 179	21 139 41 128 323 56 61 222 111	\$543, 935 1, 210, 337 465, 250 509, 386 2, 620, 645 1, 000, 066 219, 100 1, 075, 000 578, 950	187, 375 516, 605	2, 032, 213 769, 550 2, 462, 330 4, 011, 153 1, 480, 369 527, 460 3, 411, 875	1, 606, 422 439, 800 1, 252, 423 3, 032, 641 482, 103 607, 673 1, 571, 425
Kansas: Hutchinson Kansas City Topeka Wichita	521, 800 426, 800	166, 125 262, 000 341, 150 997, 780	187 92	62 127 81 304	1, 321, 789 714, 645 1, 882, 853 2, 953, 415	331, 811 1, 848, 335	1, 350, 053 2, 425, 138	667, 172 2, 305, 468
Minnesota: Duluth Minneapolis St. Paul Missouri:	2, 830, 632	4, 941, 625 2, 078, 910	1, 355 402	397	5, 668, 910 6, 232, 388	5, 978, 305 9, 135, 567	13, 449, 340 10, 682, 039	12, 389, 58 12, 651, 78
Joplin Kansas City Springfield St. Joseph St. Louis	306, 825 246, 550	1, 572, 500 231, 150 108, 500	864 116 96	49	9, 740, 041 359, 740 1, 166, 861	4, 920, 150 1, 861, 605 203, 235	15, 663, 491 1, 115, 225 1, 619, 511	8, 290, 50 2, 282, 63 431, 30
Nebraska: Lincoln Omaha South Dakota: Sioux Falls	552, 450	642, 925 1, 370, 675	98 208		3, 479, 797	1, 891, 438	5, 121, 226	1, 744, 73 3, 914, 55 2, 106, 27
Total, West North Central Per cent of change	31, 448, 130	23, 589, 173 -25. 0	7, 210	6, 198	53, 331, 944		100, 260, 683	

TABLE 3.—ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDEN.
TIAL BUILDINGS, TOTAL CONSTRUCTION, AND FAMILIES PROVIDED FOR, 1930
AND 1931, BY CITY—Continued

#### South Atlantic States

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	New re	esidential b	uilding	ZS				
State and city	Estimated cost		Families provided for in new dwellings		Estimated cost of new nonresidential buildings		Estimated cost of total construction, including alterations and repairs	
	1930	1931	1930	1931	1930	1931	1930	1931
Delaware:								
Wilmington District of Columbia:		\$1,054,050	367	217			\$4, 917, 012	<b>\$3,</b> 297, 38
Washington Florida:	14, 987, 000	20, 626, 489	1,962	3, 606	28, 151, 738	26, 421, 864	48, 823, 891	52, 588, 15
Jacksonville	488, 075	461, 550	186	160	1, 134, 200	739, 190	2, 410, 265	1, 847, 40
Miami	467, 650	604, 405	114	167	628, 550	1, 652, 848	1, 916, 885	
St. Petersburg	412, 700	373, 300	73	67	160, 650	91, 300	797, 400	
Tampa	151, 730	140, 975	91	65	819, 575	270, 865		
Georgia:								
Atlanta		1, 063, 185	714	423	5, 203, 175	1, 223, 365	8, 445, 860	3, 470, 57
Augusta	336, 010	148, 789	124	77	170, 094	430, 767	715, 330	732, 40
Columbus	272, 525	91, 650	91	36	338, 577	83, 604	711, 496	273, 19
Macon	82, 235	91, 725	45	41	413, 605	86, 860	776, 527	563, 56
Savannah	343, 150	232, 600	94	94	623, 890	46, 607	1, 068, 610	
Maryland:	, ,							,
Baltimore	7, 240, 800	8, 363, 000	1, 484	1,953	12, 826, 185	9, 429, 600	27, 820, 785	24, 690, 79
Cumberland	157, 112	73, 535	47	24	45, 814	191, 530		
Hagerstown	233, 000	121, 250	43	33	298, 064	73, 415		
North Carolina:	400,000	223,200	-	-	200,002	10, 110	012,010	20,00
Asheville	74, 500	20, 700	23	18	198, 060	61, 516	442, 282	233, 94
Charlotte	1, 245, 378	808, 098	317	203	989, 224	224, 495		
Durham	569, 243	203, 350	114	71	390, 112	366, 490	1, 046, 810	693, 0
Greensboro		143, 659	61	32	258, 894	766, 934	766, 185	
Wilmington	172, 600	177, 000	52	42	439, 700	146, 400		
Winston-Salem	455, 400	233, 866	130	53			693, 150	
South Carolina:	450, 400	233, 800	130	03	854, 755	337, 695	1, 602, 448	852, 48
Charleston	101 000	150 202	80	40	704 FOE	104 000	1 100 000	414 0
		159, 363	56	49	784, 525	124, 893	1, 102, 690	414, 2
Columbia	792, 625	456, 623	152	177	914, 945	1, 437, 727	1, 902, 760	2, 072, 5
Greenville	269, 160	333, 600	72	72	537, 576	78, 900	1, 055, 275	492, 3
Virginia:	200 04	440 000		***	510 150			
Lynchburg	630, 847	410, 308	114	101	816, 152	260, 652	1, 635, 523	
Newport News	287, 248	173, 849	91	61	714, 763	311, 809	1, 316, 473	
Norfolk		987, 168	220	262	1, 457, 030	255, 003	2, 603, 327	
Petersburg	130, 675	46, 105	37	18	34, 505	62, 153	213, 667	136, 3
Portsmouth	176, 800	139, 945	71	45	216, 820	38, 718	542, 035	334, 8
Richmond	995, 416	1, 039, 128	227	191	3, 877, 266	1, 326, 479	5, 951, 200	3, 054, 1
Roanoke	537, 910	696, 825	101	67	1, 824, 294	320, 329	2, 605, 874	1, 112, 7
West Virginia:	000 000	900 071	017	200	F 000 C11	010 621	0.000	
Charleston	803, 283	396, 074	217	109	5, 822, 841	319, 064	6, 880, 506	
Clarksburg		94, 550	18	36	384, 900	536, 690	514, 470	
Huntington		87, 900	56	30	161, 722	953, 564	769, 622	
Wheeling	219, 650	187, 330	45	44	507, 412	302, 480	1, 120, 604	644, 6
Total, South At-					Marie Control			
lantic	37, 971, 134	40, 241, 944	7, 600	8, 644	74, 347, 354	50, 334, 018	135, 881, 151	112 100 2
Per cent of change	01,011,101	+6.0	,, 000		14, 021, 001	-32 2	100, 001, 101	-17
or cours or cumpingon		10.0		140.0		-04. 0		-11

#### South Central States

				1				
Alabama:		124.4						
Birmingham	\$381,036	\$193, 585	166	94	\$1, 342, 847	\$1,084,787	\$2,419,983	\$1, 937, 497
Mobile	361, 775	216, 650	191	102				
Montgomery	563, 200	517, 900		240	358, 592			
Arkansas:	000, 200	011,000	200	210	000,002	110, 100	1, 211, 012	010, 100
Little Rock	1, 041, 910	349, 355	283	84	534, 376	2, 191, 206	2, 251, 437	2, 770, 775
	1, 041, 910	049, 000	200	0.5	304, 370	2, 191, 200	2, 201, 407	2, 110, 110
Kentucky:	070 700	107 000	07	00	181 010	444 000	000 000	max 051
Covington	272, 500	137, 200	67	39	171, 050		628, 900	
Lexington	228, 430	134, 750	85	56	758, 152	425, 532	1, 223, 819	692, 977
Louisville	2, 329, 900	1, 007, 800	428	156	3, 761, 060	3, 830, 655	6, 937, 105	5, 585, 415
Newport	67, 800	12, 200	17	3	108, 300			
Paducah	146, 940	51, 900	84	32	177, 125			
Louisiana:	,	,	-	-	,	220,000	004, 210	2.0,000
Baton Rouge	192, 174	402, 801	73	108	498, 858	247, 429	858, 164	849, 026
New Orleans	1, 177, 790	1, 017, 799	258	349	4, 209, 552			
Shreveport	470, 904	250, 969	171	143	447, 601	864, 536		
Oklahoma:	110, 301	200, 808	1.1	140	447, 001	004, 000	1, 541, 829	1,000,200
	*0 000	110 000	0.1	40	400 004	44	***	4 200
Muskogee	52, 600	116, 200	24	18				
Oklahoma City	8, 618, 825	4, 225, 975	2,005	879	16, 702, 356	14, 256, 206		
Okmulgee	1,000	0	1	0	19, 735	5, 746	39, 540	
Tulsa	3, 874, 395	1, 513, 409	943	377	3, 731, 226	2, 455, 743		4, 388, 628

TABLE 3.—ESTIMATED COST OF NEW RESIDENTIAL BUILDINGS, NEW NONRESIDENTIAL BUILDINGS, TOTAL CONSTRUCTION, AND FAMILIES PROVIDED FOR, 1930 AND 1931, BY CITY—Continued

#### South Atlantic States-Continued

	New re	esidential b	uilding	s	Potionated	and of	Estimated	cost of
State and city	Estimat	ted cost	Fam prov for in dwell	ided new	Estimated new non building	residential		nstruction, g altera- d repairs
	1930	1931	1930	1931	1930	1931	1930	1931
Tennessee:					** ***	40.10.000		
Chattanooga	\$961, 675	\$360, 065	223	123				
Knoxville	784, 167 3, 862, 730	250, 460 536, 510		90 227	2, 654, 138 4, 107, 634	665, 648 1, 576, 695		1, 034, 567 3, 334, 353
Memphis Nashville	1, 002, 000	838, 625		279	3, 848, 305			4, 403, 401
Texas:	1,002,000	000, 020	000	2.0	0,020,000	0, 112, 010	0, 011, 001	2, 100, 101
Austin	1, 132, 081	1, 077, 519	493	573	1, 836, 681	1, 077, 351	3, 335, 227	2, 471, 381
Beaumont	722, 611	201, 148		91	1, 044, 986	548, 916	2, 606, 131	1, 020, 921
Dallas	2, 460, 230	1, 948, 384		947	6, 786, 709			4, 348, 093
El Paso	1, 481, 502	579, 395	470	184	1, 072, 468	152, 661	2, 937, 105	
Fort Worth	2, 262, 499	1, 766, 036	626	495	7, 446, 738		10, 463, 409	
Galveston	420, 365	366, 864	127	145	1, 026, 915	1, 918, 058	1, 717, 460	2, 542, 849
Houston	9, 702, 815			1, 793	7, 072, 791			11, 863, 071
Port Arthur	610, 059	102, 847	244	50	1, 579, 302			904, 670
San Antonio	2, 601, 672	1, 181, 387	1, 135		5, 023, 175			3, 271, 544
Waco	339, 208	238, 329		88 6	421, 235 660, 263		1, 154, 055 1, 104, 822	
Wichita Falls	121, 040	19, 550	30	0	000, 203	344, 471	1, 104, 822	039, 189
Total, South Cen-								
tral	48, 245, 833	27, 444, 163	13, 673	8, 439	79, 662, 664	52, 817, 9541	44, 751, 8949	1, 445, 374
Per cent of change		-43.1		-38.3		-33.7		-36.8

#### Mountain and Pacific States

Arizona: Phoenix	\$1,023,215	\$715, 010	410	222	\$1, 954, 673	\$1, 268, 679	\$3, 275, 852	\$2, 109, 735
Tucson	761, 768	560, 938		186	958, 361	549, 593		1, 481, 381
California:	,	,			,		.,,	
Alameda	466, 450	259, 100	145	62	221, 610	249, 378	981, 138	676, 547
Berkeley	1, 721, 014	961, 312		216	753, 847	595, 921	2, 985, 789	1, 900, 019
Fresno	395, 050	531, 220		132	452, 871	124, 587	1, 332, 714	1, 007, 396
Long Beach	5, 663, 305	2, 629, 400		995	6, 599, 920	1, 280, 135	13, 058, 035	4, 471, 600
Los Angeles	33, 201, 363	19, 397, 887		6, 600	31, 451, 568	14, 525, 977	75, 356, 715	
Oakland	4, 165, 034	2, 798, 373		777	3, 515, 231	3, 420, 050		7, 223, 345
Pasadena	2, 163, 861	1, 279, 059		195	2, 611, 916	2, 165, 334	5, 886, 328	4, 459, 865
Sacramento		1, 553, 105		313	1, 018, 835	1, 722, 894		3, 787, 394
San Diego		2, 342, 677		627	1, 672, 216	2, 468, 511	5, 425, 922	5, 811, 456
San Francisco		9, 323, 885		2, 441	9, 973, 490	10, 016, 377	22, 414, 449	21, 442, 434
San Jose	1, 101, 965	773, 810	185	200	1, 933, 980	662, 585		1, 803, 418
Stockton		620, 663		146	688, 041	914, 378	1, 296, 295	1, 736, 709
Vallejo	93, 525	123, 550		32	154, 052	101, 771	337, 663	
Colorado:	30, 020	120, 000	-0	0.2	101,002	202, 112	001,000	001, 100
Colorado Springs	259, 575	98, 675	56	43	485, 207	145, 697	926, 322	387, 963
Denver	2, 535, 450	3, 637, 300		994	3, 385, 450	2, 115, 421	7, 648, 450	
Pueblo	135, 800	80, 950		45	185, 588	239, 458	538, 222	
Montana:	100,000	00, 000	01	10	100, 000	200, 100	000, 222	100, 110
Rutto	28, 073	450	67	1	336, 831	297, 256	396, 048	320, 328
Butte Great Falls	395, 785	375, 750		93	718, 450	506, 670		
Oregon:	000, 100	510, 100	100	90	110, 100	000, 010	1, 201, 002	900, 900
Portland	3, 900, 595	2, 548, 540	866	539	5, 311, 345	3, 076, 553	12, 063, 305	7, 155, 715
Utah:	3, 900, 393	2, 010, 010	800	009	0, 311, 310	3, 070, 333	12, 000, 000	1, 100, 110
Ogden	260, 875	100, 900	113	47	611, 578	68, 820	1, 009, 578	250, 890
					1, 974, 970	1, 743, 717		
Salt Lake City Washington:	. 1, 880, 300	1, 316, 738	994	912	1, 914, 910	1, 140, 111	4, 214, 493	3, 401, 020
	000 550	114 000	108	43	353, 510	140, 160	743, 325	358, 840
Bellingham Everett	269, 550 178, 600	114, 800 46, 200		19	366, 330	26, 150		
Seattle								
	11, 633, 985					6, 968, 010		
Spokane Tacoma	1, 226, 500 1, 045, 000			216 185	1, 751, 359 2, 552, 785	971, 885 1, 189, 120	4, 069, 518	2, 176, 405 2, 002, 015
Total. Mountain	-, - 10, 000		-				-,,	, , , , , ,
and Pacific	88 813 906	58 924 447	25 679	16, 950	97, 643, 772	57, 555, 087	217, 682, 862	136,665,106
Per cent of change	00, 010, 000	-35. 9	20,010	-34.0	01, 020, 112	41 1	211, 002, 002	-37.2

#### Hawaii

Honolulu\$1, 940, 995	\$2, 218, 734 +14. 3	864 +4.5	\$1, 170, 479   \$6, 388, 272   \$3, 736, 739   -70. 3   -41. 5
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## WAGES AND HOURS OF LABOR

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## Hours and Earnings in the Furniture Industry, 1931

SUMMARIES of average hours and earnings of wage earners in the furniture industry in the United States, as computed by the Bureau of Labor Statistics, United States Department of Labor, from wage figures collected by the bureau in a study of the industry in 1931, are presented in Table 1 of this report along with similar averages for a study in each of the years, 1910 to 1913, 1915, and 1929. Index numbers of each of the averages with the 1913 average as the base or 100 are also shown in the table. A later report as a bulletin of the bureau will furnish 1931 wage figures in more detail than can be given in this article.

Average full-time hours per week for the wage earners included in the study of the industry in 1931 were 51.8—one-tenth hour per week less than the average for 1929, and 5.6 hours per week less than the average for 1915. Average earnings per hour for 1931 were 41.1 cents, or 7.9 cents per hour less than the average for 1929 and 19.7 cents more per hour than the average for 1915. Average full-time earnings per week for 1931 were \$21.29 or \$4.14 less than the average

for 1929 and \$9.05 more per week than the average for 1915.

The averages for 1931, 1929, and 1915 for all occupations in the industry are comparable, one year with another, but are not comparable with the averages for wage earners in selected occupations for the years, 1910 to 1913 and 1915, because the latter include only a specified part of the occupations, while the former include all

occupations in the industry.

The index numbers furnish comparable figures for the industry one specified year with another from 1910 to 1931. The index for each of the years from 1910 to 1915 for selected occupations is the per cent that the average for the year is of the average for 1913. The index for 1929 and also for 1931 for all occupations was computed by increasing or decreasing the 1915 index for selected occupations by the per cent that the average for all occupations for 1929 or for 1931 is more or less than the average for all occupations for 1915. Average fulltime hours per week increased from an index of 101.4 in 1910 to 101.7 in 1911 and then decreased each year to 89.8 in 1931. The decrease between 1913 and 1931 was 10.2 per cent and between 1910 and 1931 was 11.4 per cent. Average earnings per hour decreased from an index of 98.6 in 1910 to 98.2 in 1911 and to 97.3 in 1912, increased each specified year to an index of 236.3 in 1929 when earnings per The 1931 index was hour were 136.3 per cent more than in 1913. 198.2 or 16.1 per cent less than the index for 1929. time earnings per week decreased from an index of 99.8 in 1910 to 99.4 in 1911 and to 98.6 in 1912, and increased each specified year to 212.8 in 1929 and then dropped to 178.1 in 1931. Earnings per week did not increase nor decrease in the same proportion as earnings per hour because of the change from year to year in average full-time hours.

The 1931 averages and index numbers are for a total of 30,659 wage earners of 299 representative furniture factories in 17 States. The factories included in the 1931 study are the same as those covered in 1929, except a few substituted for those closed since 1929. The same States were included in 1929 and 1931. Each State included is of material importance in number of wage earners in the industry according to reports of the Bureau of the Census.

The wage figures used in computing the 1931 averages in this report, except for a very few factories, were taken directly from the pay rolls and are for a representative pay period in July, August, September, or October, and consequently are representative of the hours and earnings of wage earners in the industry in those months.

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TABLE 1.—AVERAGE HOURS AND EARNINGS IN THE FURNITURE INDUSTRY AND INDEX NUMBERS THEREOF, BY YEARS, 1910 TO 1931

	Num-		Aver-	Aver-	Aver-		lex numl 13=100)	
Year	ber of estab- lish- ments	Num- ber of em- ployees	age full- time hours per week	age earn-	age full- time earn- ings per week	Full- time hours per week	Earn- ings per hour	Full- time earn- ings per week
Selected occupations only: 1910	128 199 231 232 1 240	9, 398 13, 299 16, 390 16, 723 16, 691	58. 2 58. 4 58. 2 57. 4 57. 1	\$0. 217 . 216 . 214 . 220 . 227	\$12.56 12.50 12.41 12.58 12.88	101. 4 101. 7 101. 4 100. 0 99. 5	98. 6 98. 2 97. 3 100. 0 103. 2	99. 8 99. 4 98. 6 100. 0 102. 4
All occupations: 1915 1929 1931	1 240 312 299	25, 576 44, 870 30, 659	57. 4 51. 9 51. 8	. 214 . 490 . 411	12. 24 25. 43 21. 29	89. 9 89. 8	236. 3 198. 2	212. 1 178.

<sup>&</sup>lt;sup>1</sup>2 sets of averages are shown for this year—1 for selected occupations and 1 for all occupations in the industry. The 1910 to 1915 averages for selected occupations are comparable 1 year with another, as are those for all occupations 1 year with another for 1915 to 1931.

## Hours and Earnings, 1929 and 1931, by Occupation and Sex

Table 2 shows for 1929 and for 1931 average full-time hours per week, earnings per hour, and full-time earnings per week for each of the 19 specified occupations in the table, and also for the group of "other employees." The group includes all occupations other than those specified because no occupation in the group had a sufficient

number of wage earners to warrant separate tabulation. Averages are shown in the table for males in each of the 19 specified occupations and for females in all except 3—hand carvers, machine carvers, and gluers of rough stock. No females were reported as laborers in 1929. Average earnings per hour of males in each specified occupation and in the group of "other employees" were less in 1931 Their averages ranged in 1929 from 30.4 cents per hour for helpers to 95.6 cents per hour for hand carvers and in 1931 from 23.1 cents to 74.5 cents per hour, respectively, for the same occupations. Average earnings per hour of females in each occupation, except machine hands and veneerers, were less in 1931 than in 1929. Machine hands averaged 29.3 cents in 1929 and 31 cents in 1931 and. veneerers 29 cents in 1929 and 29.6 cents in 1931. Average earnings per hour of females ranged by occupations in 1929 from 22.4 cents for helpers to 47.5 cents per hour for spring setters and in 1931 from 19.5 to 40.5 cents per hour, respectively, for the same occupations.

TABLE 2.—AVERAGE HOURS AND EARNINGS IN THE FURNITURE INDUSTRY, 1929 AND 1931, BY OCCUPATION AND SEX

Occupation	Sex	estab	ber of olish- ents		ber of oyees	full-t	s per	earnir	erage ngs per our	Ave full-t earnin we	time
		1929	1931	1929	1931	1929	1931	1929	1931	1929	193
Assemblers and cabinet- makers.	Male Female_	302 13	289 16	5, 735 54	<b>4, 207</b> 52	52. 1 50. 7	51. 9 49. 7	\$0. 560 . 317	\$0.445 .283	\$29. 18 16. 07	\$23. 14.
Carvers, hand	Male	91	75	295	161	48.6	49. 7	.956	.745	46. 46	
Carvers, machine	do	138	140	394	342	51. 1	51.7	.765	.576	39. 09	
Craters and packers	do	288	249	1, 931	1, 242	52. 8	52. 4	. 435	.365	22. 97	19
	Female	34	29	132	95	50.3	50. 6	.331	. 252	16, 65	12
Cushion and pad makers.	Male	68	58	184	126	50.0	49.8	. 571	. 514	28, 55	25
	Female	17	20	57	47	50.6	49. 1	. 353	. 334	17. 86	16
Cutters upholstering	Male	72	67	253	178	50.0	50. 3	. 647	. 566	32. 35	28
materials.	Female_	42	30	135	111	50. 1	49. 6	. 409	. 383	20.49	19
Finishers	Male	297	269	3, 164	2, 191	52.0	51. 6	. 505	.414	26. 26	21
	Female	59	32	251	90	50. 5	50. 2	. 371	.319	18, 74	16
Gluers, rough stock	Male	206	178	583	364	52. 5	52. 3	. 460	.379	24. 15	19
Helpers	do	288	236	3, 658	2, 322	52.4	52. 6	. 304	. 231	15. 93	12
	Female	30	16	153	72	52.0	51. 2	. 224	. 195	11.65	9
Laborers		281	224	2, 693	1,505	52. 2	52. 2	. 378	. 317	19.73	16
	Female		3		5		53. 2		. 250		_ 13
Machine hands	Male	296	284	8, 567	6, 355	52. 4	52. 1	. 512	. 428	26, 83	22
	Female	13	8	30	16	51. 1	52. 4	. 293	. 310	14. 97	16
Polishers and rubbers	Male	247	207	1,897	1, 194	52. 7	52.8	. 507	. 403	26. 72	21.
	Female	14	11	33	31	52. 5	50. 9	. 300	. 259	15. 75	13
Sanders, hand	Male	249	199	2, 283	1, 189	52. 5	52. 8	. 419	. 331	22. 00	17
	Female	61	45	653	301	51.6	50. 1	. 268	. 226	13. 83	11
Sewers	Male	19	16	40	27	49.3	50. 5	. 670	. 578	<b>3</b> 3. 03	29
	Female	100	91	932	681	49. 4	49.0	. 408	. 374	20, 16	18
Sprayers	Male	270	235	1, 155	813	52. 8	52. 4	. 527	. 445	27. 83	23
	Female	10	10	22	16	52.0	48. 2	. 386	. 324	20. 07	15
Spring setters	Male	71	67	557	396	50.0	50. 2		. 444	25. 35	22
	Female	5	5	57	42	49.7	50. 1	. 475	. 405	23. 61	20
Frimmers	Male	215	176	991	610	52. 2	51.9	. 506	. 432	26. 41	22
	Female.	18	7	89	19	50.9	52. 1	. 314	. 205	15. 98	10
Jpholsterers	Male	151	139	2, 523	2, 119	50. 1	50.3	. 724	. 538	36. 27	27
	Female_	13	16	49	71	50.3	52. 2	. 403	. 296	20. 27	15
eneerers	Male	145	135	1, 165	729	52.5	52. 5	. 454	.376	23. 84	
	Female	22	18	107	41	51.5	50. 4	. 290	. 296	14. 94	
Other employees	Male	292	281	3, 844	2,806	51.6	51.5	. 516	. 489	26. 63	
	Female_	53	32	204	93	50.3	50. 0	.343	. 301	17. 25	

## Hours and Earnings, 1929 and 1931, by Sex and State

Table 3 shows average full-time hours per week, earnings per hour, and full-time earnings per week for the wage earners included in the studies of the industry in 1929 and 1931. The averages are for males and females separately in each State and in all States combined, and also for both sexes together in each State and in all States combined.

Average full-time hours per week of males ranged by States in 1929 from a low of 47 to a high of 56.9, and in 1931 from 47.4 to 55; those of females ranged in 1929 from 45.4 to 55 and in 1931 from 44.8 to 55; and those of both sexes combined or the industry ranged in 1929 from 46.9 to 57, and in 1931 ranged from 47.2 to 55. The average for all males in all the States was 52.1 in 1929 and 51.9 in 1931, and for females was 50.5 in 1929 and 49.8 in 1931.

Average earnings per hour of males ranged by States in 1929 from 29 to 64.6 cents and 1931 from 23.6 to 59.4 cents; those of females ranged in 1929 from 14.5 to 49.2 cents and in 1931 from 14.1 to 47 cents. The average for males in all States was 49.9 cents in 1929 and 41.6 cents in 1931, and for females in all States was 34.5 cents in 1929 and 31.4 cents in 1931. The 1931 average for males in each State and for females, except in two States, was less than the 1929 average. The 1931 average for males in all States was 16.6 per cent less than the 1929 average and for females was 9 per cent less than the 1929 average.

TABLE 3.—AVERAGE HOURS AND EARNINGS IN THE FURNITURE INDUSTRY, 1929 AND 1931, BY SEX AND STATE

Sex and State	Numi estab me	lish-		ber of oyees	full- hour	rage time s per ek	earr	erage nings hour	Averag time ings pe	earn-
,	1929	1931	1929	1931	. 1929	1931	1929	1931	1929	1931
Males										
California	15	15	1,606	1, 264	47.0	47.4	\$0,599	\$0, 525	\$28.15	\$24.89
Georgia	5	5	643	722	55. 1	55.0	. 290	. 244	15.98	13.42
Illinois	30	30	4,947	3, 297	50.0	50. 1	. 608	. 498	30, 40	24.95
Indiana	39	31	4, 701	3, 125	52.6	51.6	. 443	. 399	23. 30	20. 59
Kentucky	4	5	708	516	56. 9	54. 3	. 453	. 389	25. 78	21. 12
Maryland.	12	11	763	498	51.1	49.5	. 516	. 482	26. 37	23.86
Massachusetts	18	16	1,904	1, 151	48.3	48.6	. 646	. 594	31. 20	28. 87
Michigan	23	23	5, 158	2,856	51. 2	51.0	. 555	. 461	28.42	23. 51
Missouri	13	13	642	476	51.9	50, 8	.477	. 432	24.76	21.98
New Jersey	6	5	509	511	49.0	49.0	. 619	. 589	30. 33	28. 86
New York	55	55	6, 526	3,917	51.4	51.3	. 566	. 475	29.09	24. 37
North Carolina	17	17	3,951	3, 206	55.0	54. 2	. 333	. 288	18, 32	15, 61
Ohio	24	23	2, 266	1,381	53. 6	53. 8	. 493	. 435	26.42	23.40
Pennsylvania	26	25	2,978	2,026	53. 2	53. 3	.474	.418	25. 22	22. 28
Tennessee	4	4	716	423	54. 4	52.7	. 348	. 289	18.93	15. 23
Virginia	8	8	1, 351	1,605	55. 0	55.0	. 298	. 236	16.39	12, 98
Wisconsin	13	13	2, 543	1,902	53.7	53. 6	. 459	. 430	24.65	23. 05
Total	312	299	41, 912	28, 876	52.1	51.9	. 499	.416	26.00	21.50
Females						-	-			
California	10	11	132	99	45. 4	44.8	. 492	.470	22.34	21.06
Georgia	1	3	(1)	65	(1)	55, 0	(1)	. 208	(1)	11. 44
Illinois	12	8	462	319	50.0	50, 1	. 427	.375	21. 35	18.79
Indiana	21	16	255	121	52.9	51. 1	.272	. 233	14.39	11, 91
Kentucky	1	4	(1)	24	(1)	52.9	(1)	. 232	(1)	12. 27
Maryland		8	(1) 71	47	50, 0	49.0	.387	.350	19, 35	17. 15
Massachusetts	15	14	201	115	47.7	46, 4	. 356	. 436	16.98	20, 23
Michigan		17	563	256	51.4	51.8	.340	. 295	17.48	15, 28
Missouri	8	8	49	25	50.0	49.8	.319	. 277	15.95	13.79
New Jersey	3	3	11	28	46, 2	45, 5	.404	. 434	18. 66	19. 7
New York	32	28	326	187	48.8	48.6	. 389	. 336	18.98	16. 33
North Carolina	5	5	54	52	55, 0	49.4		. 176	10, 40	8.69
Ohio.	14	13	184	121	49.8	49.7	.374	. 314	18, 63	15. 6
Pennsylvania	16	9	101	58	50.8	50. 6	. 363	. 241	18, 44	12. 19
Tennessee	3	2	165	89	55.0	50.7	.161	. 141	8.86	7. 1
Virginia	2		26	00	55, 0		. 145		7.98	1
Wisconsin	11	13	333	177	50.0	50.0		. 297	15.75	14. 8
Total	180	162	2,958	1,783	50. 5	49.8	_	.314	17.42	15, 6
Males and females	100	102	2,000	1,100	00.0	20.0	.010	.014	11.12	10.0
			1 700	1 000	100	45.0	1 201	201	07 70	04 -
California		15	1,738	1,363	46.9	47. 2		. 521	27.72	24. 59
Georgia	5	5	663	787	55.1	55.0		. 241	15.92	13. 20
Illinois	30	30	5, 409	3,616	50.0	50. 1		.488	29.65	24. 4
Indiana	39	31	4,956	3, 246	52.6	51.5		. 394	22.83	20. 2
Kentucky	4	5	713	540	57.0	54. 2		. 383	25.82	20.7
Maryland	12	11	834	545	51.0	49.5		.471	25.76	23, 3
Massachusetts	18	16	2, 105	1, 266	48. 2	48.4		. 581	29.88	28. 1
Michigan	23	23	5, 721	3, 112	51. 2	51.0	. 535	. 449	27, 39	22.9
Missouri	13	13	691	501	51.8	50.8		. 425		21.5
New Jersey	6	5	520	539	48.9	48.8	. 615			28.3
New York	55	55		4, 104	51. 2	51.2				24.0
North Carolina	17	17	4,005	3, 258	55. 0	54.1	. 331	. 286		
Ohio	24	23	2, 450	1,502	53.3	53. 5				22.7
Pennsylvania	26	25	3,079	2,084	53. 1	53. 2	.471	.413	25, 01	
Tennessee	4	4	881	512	54. 5	52.3			17.06	
Virginia	8	8	1,377	1,605	55. 0	55, 0		. 236	16. 28	12.9
Wisconsin	13	13		2,079	53. 3	53. 3				
					_	-				_
Total	312	299	144, 870	30, 659	51.9	51.8	.490	.411	25. 43	21, 2

Data included in total.

## Hours and Earnings, 1931, by Occupation and State

Table 4 presents 1931 average full-time hours per week, earnings per hour and full-time earnings per week for males in each of six occupations in the industry. The number of wage earners in these occupations is 54.7 per cent of the total number of males that were included. in the study and 51.5 per cent of males and females in all occupations. Averages are not shown in the table for females in any occupation because the number of wage earners of this sex is less than 6 per cent of the total of both sexes.

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19. 13 12.75 25. 60 16. 40 28, 47 19.00 21.36 16, 01 19, 82

12, 15 9, 98 16, 55

22. 30 16. 24 21. 28 13. 18 17. 48 11. 32 29. 19 18. 33 23. 32 15. 62 22. 29 20. 29 22. 42 10.68 27. 06 15. 45 19. 74

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TABLE 4.—AVERAGE HOURS AND EARNINGS FOR SIX SPECIFIED OCCUPATIONS IN THE FURNITURE INDUSTRY, 1931, BY SEX AND STATE

	Assem	blers an	d cabin	etmake	rs, male		Machin	ne hanc	ds, male	1
State	Number of estab- lish- ments	Number of employ-ees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week	Number of estab- lish- ments	Number of employ-	Average full-time hours per week	age earn-	Ave ag ful tim ear ing pe wee
California	15	160	46. 9	\$0. 559	\$26. 22	15	239	48. 5	\$0. 546	\$26.
Georgia	5	71	55. 0	. 257	14. 14	5	158	55. 0		\$26.
llinois	30	510	50. 0	. 528	26. 40	29	673	50. 2		26
ndiana	29	505	51.7	. 429	22. 18	30	651	51. 6	. 408	21
Kentucky	5	97	53. 8	.411	22. 11	5	93	54. 1	. 415	22
Maryland	10	56	49. 8	. 500	24.90	9	77	50. 1	. 479	24
Massachusetts	13	191	48. 4	. 660	31.94	14	243	48. 9	. 564	27
Michigan	23	409	51. 1	. 455	23. 25	23	648	51. 2	. 474	24
Missouri	13	82	51. 2	. 465	23. 81	11	116	50. 6	. 433	21
New York	5	89 568	49. 1 52.0	.618	30, 34	5	128	49. 1	. 601	29
New York	54	568	52. 0	334	25. 58	52	903	50. 9	316	24
North Carolina	17 21	391 212	54. 0 53. 9	. 334	18. 04 23. 45	17	718	54. 2 54. 6		17
Pennsylvania		332	53. 9 53. 4	. 435	23. 45 22. 53	21 23	337 479	54. 6 53. 4		24
	24	332	53. 4	. 422	14. 60	23	479 96	53, 4 52, 4		22
Virginia	8	186	52. 5 55. 0	.278	14.60	8	96 336	52. 4 55. 0	. 328	17
Visconsin	13	297	53. 6	. 425	15. 13 22. 78	13	460	53. 8	. 430	23
Total	289	4, 207	51. 9	. 445	23. 10	284	6, 355	52. 1	. 428	2
	Po	lishers a	and rub	bers, m	nale		Sande	rs, han	d, male	
California	6	31	47.4	\$0. 511	\$24. 22	11	62	47.3		\$20
leorgia	92	12	55. 0	. 196	10.78	5	46	55.0	. 152	20
llinois	22	106	50.3	. 468	23. 54	21	74 154	50. 3 52. 1	308	22
ndiana	22	83 32	52. 5 54. 5	. 367	19. 27	22	154	52. 1 55. 0	308	16
Centucky	4 2	32	54. 5	.405	22. 07 25. 49	3 4	24 12	55. 0 52. 0		18
Maryland	12	42	51. 7 48. 7	. 493	25. 49 26. 79	8	12 32	52. 0 49. 8	.366	19
fassachusettsfichigan	23	156	48. 7 50. 6	. 550	26. 79	19	89	51.0		18
Aichigan	6	11	53. 1	. 386	20. 50	5	8	52. 2		22
New York		201	52. 7	. 496	26. 14	36	187	52. 1	. 392	20
Forth Carolina	14	174	55. 0	. 305	16.78	14	175	55. 0	. 268	14
hio	10	39	54. 5	. 462	25. 18	13	64	54. 5	. 386	21
ennsylvania	23	111	53. 6	. 423	22.67	19	100	53. 7	. 349	18
'ennessee	3	17	54. 4	. 253	13. 76	4	19	53. 3	. 227	12
irginia	8	113	55. 0	. 229	12.60	8	107	55. 0	. 218	1
Visconsin	8	60	54.3	. 466	25. 30	7	36	54. 2		20
Total	207	1, 194	52.8	. 403	21. 28	199	1, 189	52. 8	. 331	17
		Uphol	lsterers,	male	-		Ven	eerers,	male	
alifornia	10 4	214 95	46. 4 55. 0	\$0. 576 . 405	\$26. 73 22. 28	2	8	48. 0		\$20
linois	19	501	50.4	.470	23. 69	19	85	50. 0	. 436	2
ndiana	10	131	51.3	.410	21. 03	16	90	52. 0	. 331	17
entucky	1	15	55. 0	. 424	23. 32	3	23	53. 7	. 386	20
	8	153	48. 9	.601	29. 39	1	1	(1)	(1)	(
[aryland	11	156	49. 2	.721	35. 47	3	4	46. 0		42
lassachusetts	9	79	50. 5	. 625	31. 56	16	131	50. 6		2
[assachusetts[ichigan		17	48, 1	. 720	34. 63	2	5	52.8	. 398	2
[assachusetts [ichigan [issouri	4		48. 2	.793	38. 22	1	102	(1)	(1)	9
[assachusetts [ichigan [issouri ew Jersey	4 4	32		. 651	31.90	23	102	52. 4	.428	2
Iassachusetts Iichigan Iichigan ew Jersey ew York	4 4 22	307	49. 0		The state of the s	10	70	-	-	
Iassachusetts lichigan lissouri ew Jersey ew York orth Carolina	4 4 22 8	307 107	53. 9	. 363	19. 57	10		55. 0		
lassachusetts lichigan lissouri ew Jersey ew York orth Carolina	4 4 22 8 10	307 107 150	53. 9 51. 8	. 536	27. 76	8	21	54. 3	. 403	2
lassachusetts lichigan lissouri ew Jersey ew York orth Carolina hio ennsylvania	4 4 22 8 10 9	307 107 150 52	53. 9 51. 8 52. 0	. 536	27. 76 28. 50	8	21 88	54. 3 53. 5	. 403	
assachusetts ichigan issouri ew Jersey ew York orth Carolina ion insylvania ennessee	4 4 22 8 10 9	307 107 150 52 14	53. 9 51. 8 52. 0 50. 4	. 536 . 548 . 407	27. 76 28. 50 20. 51	8 17 2	21 88 2	54. 3 53. 5 52. 5	. 403 . 363 . 350	111111111111111111111111111111111111111
assachusetts ichigan issouri ew Jersey ew York orth Carolina ino ennsylvania ennessee rginia	4 4 22 8 10 9 2 2	307 107 150 52 14 3	53. 9 51. 8 52. 0 50. 4 55. 0	. 536 . 548 . 407 . 409	27. 76 28. 50 20. 51 22. 50	8 17 2 7	21 88 2 72	54. 3 53. 5 52. 5 55. 0	. 403 . 363 . 350 . 230	2
assachusetts ichigan issouri ew Jersey ew York orth Carolina hio mnsylvania	4 4 22 8 10 9	307 107 150 52 14	53. 9 51. 8 52. 0 50. 4	. 536 . 548 . 407	27. 76 28. 50 20. 51	8 17 2	21 88 2	54. 3 53. 5 52. 5	. 403 . 363 . 350 . 230	2 19 19 19 19

<sup>&</sup>lt;sup>1</sup> For less than 3 wage earners in this establishment, data included in total.

NS IN

Average fulltime earnings per week

\$26. 48 14. 52 26. 30 21. 05 22. 45 24. 00 27. 58 24. 27 21. 91 29. 51

24 38 17, 13 24, 35 22, 27 17, 19 14, 80 23, 13

820. 34 8. 36 22. 74 16. 05 18. 76 19. 03 23. 95 18. 87 22. 45 20. 42

20. 42 14. 74 21. 04 18. 74 12. 10 11. 99 20. 87

20. 64 (1. 80 (7. 21 (0. 73 (1) 2. 69 3. 78 1. 01

1) 2. 43 6. 01 1. 88 9. 42 8. 38 2. 65

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## Farm Wage and Labor Situation in January, 1932

THE general level of farm wages on January 1, 1932, was 13 per cent lower than in October, 1931, and 2 per cent below the 1910–1914 average, according to data compiled by the United States Department of Agriculture. The decline in the wage index was accompanied by a further increase in the supply of farm labor and a decline in demand. The supply on January 1 was 120.9 per cent of normal and the demand 60.5 per cent of normal; the corresponding figures for October, 1931, were 113.4 and 68.9, respectively. Supply expressed as per cent of demand on January 1 was 199.8, which is the highest ratio recorded by the Department of Agriculture since the beginning of its record in 1918. Reports received by that department, particularly from the North Central States, cite numerous instances of farm laborers working for board and lodging alone.

Table 1 shows farm wage rates and index numbers for the years 1928, 1929, and 1930, and for the months of January, April, July, and October, 1929 to 1931, and for January, 1932, as reported by the

Department of Agriculture.

TABLE 1 .- FARM WAGE RATES AND INDEX NUMBERS, 1928 TO JANUARY, 1932

		Average farr	n wage		Index
Year and month	Per m	onth	Per	day	numbers of farm wages
	With board	Without board	With board	Without board	(1910– 1914=100)
1928	\$34.66	\$48.65	\$1.88	\$2.43	169
1929	34. 74	49. 08	1.88	2.42	170
1930		44. 59	1.65	2. 16	152
1929—January		47. 24	1.78	2. 34	162
April		49.00	1.79	2.34	167
July		50. 53	1.89	2. 43	173
October		50.00	1. 92	2.46	174
1930—January		46. 80	1.73	2. 27	159
April		47. 81	1.72	2. 27	162
July		47. 24	1.72	2. 23	160
October		44. 28	1.61	2. 12	150
1931—January		39. 04	1. 38	1.87	129
April		38. 37	1. 33	1.80	127
July	25. 35	37. 00	1. 29	1.73	123
October		34. 22	1. 18	1. 59	113
1932—January	19. 77	30. 53	1.02	1.40	96

Table 2, compiled from figures given in a press release of the Department of Agriculture, dated January 18, 1932, shows farm wage rates and farm labor supply and demand in the several geographic divisions, and in the United States as a whole, on January 1, 1932.

TABLE 2.—FARM WAGE RATES AND FARM LABOR SUPPLY AND DEMAND, JANUARY 1, 1932, BY GEOGRAPHIC DIVISION, AND FOR THE COUNTRY AS A WHOLE

		Wage	rates		Farm la	bor supply mand	and de-
Geographic division	Per n	nonth	Per	day	Supply,	Demand.	Supply,
	With	Without board	With board	Without	per cent	per cent of normal	per cent of de- mand
North Atlantic East North Central West North Central South Atlantic South Central Western	\$29, 13 21, 97 20, 98 14, 43 14, 76 32, 39	\$48. 80 33. 80 31. 65 21. 80 21. 90 51. 45	\$1.70 1.17 1.12 .74 .72 1.48	\$2.37 1.63 1.55 1.02 .96 2.12	121. 0 128. 5 123. 1 114. 2 118. 0 129. 2	70. 0 61. 1 56. 7 63. 5 56. 9 61. 9	172, 210, 217, 179, 207, 208,
United States	19. 77	30. 53	1. 02	1.40	120. 9	60. 5	199.

# Wage-Rate Changes in Manufacturing Industries in January, 1932

OF THE 16,197 manufacturing establishments from which data concerning employment were received, 15,321, or 94.6 per cent of the total number of establishments, reported no wage-rate changes during the month ending January 15, 1932. A total of 860 establishments, or 5.3 per cent of the total number, reported decreases in wage rates averaging 10.9 per cent and affecting 94,780 employees, or 3.5 per cent of all the employees. Wage-rate increases averaging 2.1 per cent were reported by 16 establishments in one industry—printing, book and job—and 1,157 employees were affected.

WAGE CHANGES OCCURRING BETWEEN DECEMBER 15, 1931, AND JANUARY 15, 1932

, man and count	Estab-	Total		er of est ts report		Numbe	r of empl aving—	oyees
Industry	ments report- ing	number of employees	No wage changes	Wage in- creases	Wage de- creases	No wage changes	Wage in- creases	Wage de- creases
All manufacturing indus-								
Per cent of total	16, 197 100. 0	2, 716, 535 100.0	15, 321 94. 6	16	860 5.3	2, 620, 598 96, 5	1, 157	94, 780
Slaughtering and meat packing.	204	86, 859	191		13	85, 761		1, 098
Confectionery	323	31, 858	297		26	29, 208		2,650
Ice creamFlour	302 392	10, 472 15, 257	294 354		8 38	10, 306		166
Baking	834	59, 918	805		29	13, 880 58, 543		
Sugar refining, cane	14	7, 854	14			7, 854		
Beet sugar	46	4, 045	44		2	3, 952		
Beverages	281	9, 708	275		6	9, 666		
Butter	200	4, 997	181		19	4, 462		535
Cotton goods	533	180, 458	486		47	170, 582		9, 876
Hosiery and knit goods		86, 402	361					
Silk goods Woolen and worsted goods	265 180	49, 494	245 166		20	46, 999		2, 495
Carpets and rugs	33	46, 252 15, 418	30		14	43, 166 15, 233		
Dyeing and finishing textiles	144	36, 950	136		8	35, 673		
Clothing, men's	348	54, 588	318		30	51, 499		3, 089
Shirts and collars	106	14, 067	98		8	13, 526		
Clothing, women's	396	25, 080	392		4	24, 700		
Millinery and lace goods	133	10, 280	129		4	10, 125		
Corsets and allied garments	30	5, 127	30			5, 127		
Cotton small wares		9, 680	95			9, 418		
Hats, fur-felt	39	5, 708	38		1	5, 669		39
Men's furnishings Iron and steel	70 203	4, 732 193, 807	66 198		4 5	4, 438		294
Cast-iron pipe	41	8, 698	36		5	191, 256 7, 256		2, 551 1, 442
Structural-iron work	168	19, 143	160		8			
Hardware	91	23, 149	85		6	18, 556 21, 854		
Steam fittings	105	19, 810	91		14	15, 459		4, 351
Stoves	130	12, 302	114		16	10, 727		1, 575
Bolts, nuts, washers, and rivets.	62	7, 532	56		6	6, 791		741
Cutlery and edge tools		13, 769	152			13, 555		
Forgings, iron and steel Plumbers' supplies	49	5, 094	48		1	4, 744		
Tin cans and other tinware	63 54	4, 795 7, 385	60 53		. 3	4, 678 7, 283		117 102
Tools, not including edge tools.	119	7, 494	110		9	6, 775		719
Wirework	61	5, 036	58		3	4, 757		279
Lumber, sawmills	597	60, 610	571		26	56, 973		3, 637
Lumber, millwork	348	19, 938	318		30	18, 457		1, 481
Furniture Turpentine and rosin	432 19	45, 580 903	393		39	42, 341		3, 239
	19	900	14		2	872		31
Leather	137	21, 800	132		5	21, 281		519
Boots and shoes. Paper and pulp	285 391	95, 945 75, 787	268		17	94, 464		1, 481
Paper boxes	294	21, 205	359 280		32 14	71, 267 20, 141		4, 520 1, 064
Printing, book and job	611	52, 556	577	16	18	51, 036	1, 157	363
Printing, newspapers and peri-	1111	1041		11-11		1 199		
odicals	402	63, 320	391		11	62,070		1, 250
Unemicals	110	20, 747	108		2	20, 266		481
Fertilizers	201	7, 196	187		14	6, 823		373
Petroleum refining Cottonseed oil. cake, and meal	100 42	46, 728 1, 772	98 42		2	46, 540 1, 772		188
	W. T. F 1	1				La Contraction		
Druggists' preparations Explosives	22 20	5, 314 3, 229	21 20		1	5, 289 3, 229		25
raints and varnishes	324	14, 146	307		17	13, 400		746
Kayon	19	24, 105	19			24, 105		1.10
Soap	62	8, 957			4			317

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WAGE CHANGES OCCURRING BETWEEN DECEMBER 15, 1931, AND JANUARY 15,

	Estab- lish-	Total		per of esta ts reporti		Numbe h	r of emplaying—	oyees
Industry		number of employees	No wage changes	Wage in- creases	Wage de- creases	No wage changes	Wage in- creases	Wage de- crease
Cement		13, 620	100		13	12, 798		8
Brick, tile, and terra cotta		18, 957	670			17, 716		
Pottery	106	13, 679	100			13, 009		
Glass	188	35, 026	178		10			
Marble, granite, slate, etc	212	5, 242	203		9			
Stamped and enameled ware Brass, bronze, and copper pro-	86	13, 239	80			12, 153		,,,
ducts	166	27, 214	160			26, 516		6
Aluminum manufactures	24	5, 493	24			5, 493		
Clocks, clock movements, etc.	18	4,073	18			4,073		
Gas and electric fixtures	44	5, 134	42			4, 971		
Plated ware	37	5, 019	36		1			
lead, and zinc	26	8, 938	26			8,938		
Dhewing and smoking tobacco,	146	8, 229	143		3	7, 624	*******	
snuff	29	9, 477	29					
Cigars and cigarettes	188	42,748	181		7	42, 190		5
Automobiles	228	242, 536	220					
Aircraft Cars, electric and steam rail- road	35	6, 945	33		2	6, 471		4
road	30	3, 917	26					
Locomotives	15	3, 568	14		1	3, 117		4
Shipbuilding	95	33, 216	93		2	33, 140		1
Rubber tires and inner tubes	37	44, 039	34		3			
Rubber boots and shoes	8	9,877	8					
Rubber goods, other		18, 535	91		4			
Agricultural implements Electrical machinery, appara-	70	8, 948	65			8, 775		
tus and supplies	239	138, 889	232		7	137, 937		
Engines and water wheels	71	13, 707	68		3	13, 580		
machines oundry and machine-shop	44	15, 948	44					
products	959	116, 942	902		57	110.055		6,
fachine tools	139	15, 255	132		7	14, 648		
extile machinery and parts	34	7, 465	31		3	7, 280		
ypewriters and supplies	17	11, 256	16		1			
adio	37	17, 570			i	17, 557		1
lectric railroad	429	23, 986			13			
team railroad	473	74, 792	438		35			

## Recent Wage Changes Reported by Trade-Unions

AGE and hour changes reported by unions and municipalities during the past month cover 44,345 workers, 605 of whom were reported to have gone on the 5-day week. A tabulation of these changes is shown in the table following.

In addition to those reporting changes, bakers, Syracuse, N. Y.; brewery workers, Buffalo, N. Y.; clothing workers, Cincinnati, Ohio; awning workers, St. Louis, Mo.; musicians, Kansas City, Mo.; news compositors, Dallas, Tex.; stereotypers and electrotypers, Houston, Tex.; and electrotypers in New York City, reported renewed wage agreements.

RECENT WAGE CHANGES, BY INDUSTRY, OCCUPATION, AND LOCALITY, NOVEMBER, 1931, TO FEBRUARY, 1932

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	Date of	Rate of	114600	Trouis !	er wee
Industry or occupation, and locality	change	Before change	After change	Before change	After
akers, Chicago, III.:		Per week	Per week		
First bakers	Jan. 1	\$48.00	\$43.00	48	
Second bakers.	do	42.00	37.00	48	
uilding trades:					
Bricklayers-		Per hour	Per hour		
Bakersfield, Calif. and vicinity	do	1.50	1. 371/2		
Hannibal, Mo., and vicinity Lincoln, Nebr	Jan. 1	1.50 1.25	1. 25 1. 00	44	
Carpenters—	Jan. I	1.20	1.00	44	
Bakersfield, Calif., and vicinity	do	1. 121/2	1.00	40	1
Brockton, Mass., and vicinity	Jan. 4	1. 25	1. 15	40	
Cleveland, Ohio, and vicinity Danielson, Conn	Jan. 1	1. 371/2	1. 121/2	40	
Danielson, Conn	Feb. 1	.871/2	. 78	40	
Dayton, Ohio Duluth, Minn Franklin, Pa North Adams, Mass., and vicinity Portland, Me Steekton, Calif	Dec. 21	1. 25	1 1.00	40	
Duluth, Minn	Jan. 1	1.00	1.00	44	
North Adams Mass and visinity	Jan. 15	1. 12½ 1. 06¼	. 95 1. 00	40	
Portland Ma	Nov 13	1.00	. 80	40	
Stockton, Calif	Dec. 15	1. 121/2	1.00	44	
Syracuse, N. Y	Jan. 1	1. 32	1.00	40	
Watsonville, Calif	Jan. 5	1. 121/2	1.00	40	
Cement finishers, Waco, Tex., and vicinity	Nov. 15	1. 25	1.00	40	
Electrical workers—	1	1			
Bakersfield, Calif., and vicinity Richmond, Va Laborers, Stockton, Calif.	Jan. 1	1. 25	$1.12\frac{1}{2}$	40	
Richmond, Va.	Dec. 1	. 871/2	. 80	44-48	
Laborers, Stockton, Cant.	Jan. 11	621/2	. 50	44	
Lathers, Bakersfield, Calif., and vicinity Painters, decorators, and paper hangers—	Jan. 1	1. 25	1. 121/2	40	
Bakersfield, Calif., and vicinity	do	1. 121/2	1.00	40	-
Dallas, Tex., sign, scene, and pictorial		1/2	1.00	10	
painters	Jan. 11	1.50	1. 25	44	
Franklin, Pa	Jan. 13	1.00	. 871/2	44	
Moberly, Mo	Jan. 1	. 871/2	.75	48	
Plasterers—					
Bakersfield, Calif., and vicinity	do	1.50	1. 371/2	40	
Pasadena, Calif	Nov. 6 Nov. 15	1.50	1. 121/2	40	
Waco, Tex., and vicinity	Nov. 15	1.75	1.50	40	
Plumbers and steamfitters— Bakersfield, Calif., and vicinity	Jan. 1	1, 371/2	1. 25	40	
Haverbill Mass	Dec. 23	1. 21	1. 01	40	
Haverhill, Mass Spokane, Wash	Jan. 1	1. 25	1.00	40	
Utica, N. Y.	Nov. 24	1. 371/2	1. 25	40	
Sheet-metal workers, Bakersf eld, Calif., and					
vicinity	Jan. 1	1. 25	$1.12\frac{1}{2}$	40	
	Mar Ton	Per week	Don sussh		
auffaura and teamsters Chicago III	Ton 0		Per week 28, 50-44, 50	00	
auffeurs and teamsters, Chicago, Ill	Jan. 2	31.00-44.00	28. 30-44. 30	60	
Neckwear workers, New York, N. Y	Jan. 18	(2)	(3)	44	
Shoe cutters, Brockton, Mass.		40.80	37.00	48	
and district, and district from the state of		17.5		-	
per makers:		Per hour	Per hour		
Holyoke, Mass	Dec. 28	.3992	4.0507	48	
Monroe, Mich	Jan. 1	.4181	.3573	(5)	(5)
nting and publishing:					
Compositors—		Den anach	Donanak		
Chattanooga, Tenn.— Newspaper, day	Nov 1	Per week	Per week	45	45
Newspaper, night	do. 1	47. 50	45, 00	45	45
Long Beach, Calif.	Dec. 2	(5)	(8)	45	41
Tulsa, Okla.—	200. 2	1	( )	10	2.4
Newspaper, day	Feb. 1	49.00	50.00	48	48
Newspaper, night	do	52.00	53.00	48	48
Woonsocket P I -					
Job work.	Nov. 28	43.00	44.00	44	44
Newspaper	do	43.00	44.00	48	48
Decremon Deathard Over	1 1100	Per day	Dan dans		
Pressmen, Portland, Oreg.— Newspaper, day	Nov 1	7.50	Per day 7,50	48	40
Newspaper, night	do. 1	7.75	7.75	45	37
Stereotypers-			1.10	30	04
Rochester N V -		Per week	Per week	1	
Newspaper, day	do	51.00	50.00	48	48
Newspaper, night	do		54.00	48	48
				1	
Tacoma, Wash.—		Per day	Per day		
Day work	Jan. 3	8.00	7. 25	42	42
Night work		8.50	7.75	42	42

<sup>8</sup> Not reported.

<sup>103146°-32-11</sup> 

RECENT WAGE CHANGES, BY INDUSTRY, OCCUPATION, AND LOCALITY, NOVEM. BER, 1931, TO FEBRUARY, 1932—Continued

		Rate of	wages	Hours I	er week
Industry or occupation, and locality	Date of change	Before change	After change	Before change	After
Stationary steam engineers, Holyoke, Mass., and vicinity: 1st class	Jan. 1	Per week \$53, 00	Per week \$50, 00	48	48
		Per hour	Per hour		
2d class		. 93	. 87	48	48
3d class	do	. 85	. 79	48	48
vicinity	Dec. 27	.73	. 68	48	48
Street railway workers:	Dec. 21	.10	.00	40	48
Dayton, Ohio	Jan. 1	. 55	. 50	6 60	6 60
Dayton, Ohio East St. Louis, Ill., conductors, motormen, and shopmen Mobile, Ala.—	do	.4462	(3)	30-63	30-63
Conductors and motormen	do	. 49 53	.4549	60	60
Machinists	do	. 67	. 64	45	45
Northampton, Mass., car operators and bus				1	
drivers	Feb. 1	. 63	. 55	54	54
Textiles: Sheeting workers, Peabody and Salem, Mass. Municipal:	Jan. 18	Per week 6 22. 20	Per week 6 20.00	35	35
Detroit, Mich	Jan. 1	(5)	(7)	(5)	(5)
Philadelphia, Pa., city and county employees		(7)	17	()	(-)
receiving over \$1,200 a year	do	(8)	(3)	(5)	(5)
Syracuse, N. Y., employees receiving over		740	400		
\$1,200 a year	do	(8)	(3)	(8)	(*)
Union County, N. J., park commission employees receiving 50 cents an hour and over	Feb. 1	(8)	(3)		44

<sup>&</sup>lt;sup>3</sup> 10 per cent reduction.
<sup>5</sup> Not reported.

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## Wages of Seamen, 1931

THE following data on wages of seamen on American and foreign vessels are from Merchant Marine Statistics, 1931, compiled by the Bureau of Navigation of the United States Department of Commerce.

All wages, except American, are taken from consular reports. The American figures are averages taken from reports of the shipping commissioners. The wages on foreign vessels are stated in the United States equivalents of the foreign values, taken at the exchange rate on January 1 of the year named. When more than one rate has been reported for foreign vessels, due to length of service or other conditions, the highest is usually given in the table. On Dutch tank steamers the wages in the deck department are about 10 per cent more than those stated herein. The wages on American motor ships average about 10 per cent more than on steamships. On German motor ships the engineers receive \$5 per month more and the other personnel in the engineer department \$3 more than on steamships.

Table 1 gives average monthly wage rates, on January 1, 1931, of four typical classes of seamen on vessels of American and foreign registry.

<sup>6</sup> Average. 7 10 to 17 per cent reduction.
8 Various.

TABLE 1.—AVERAGE MONTHLY WAGES OF FOUR TYPICAL CLASSES OF SEAMEN ON AMERICAN AND FOREIGN STEAM AND MOTOR CARGO VESSELS OF 5,000 GROSS TONS AND OVER, JANUARY 1, 1931

Nationality of vessels	Able sea- men	Carpen- ters	Chiefen- gineers	Firemen
American: PrivateUnited States Shipping Board	*\$60 63	\$77 79	\$280 277	\$63 66
British	43 42	63 48	1 147 168	46
DanishDutch.		46 24	146 152	42
French	40 23 31 26	38 32	138 82	37
Norwegian	43 19	22	141 74	44
Spanish	42	44	145	4:

<sup>1</sup> After 3 years, \$143; after 5 years, \$152; on motor vessels, \$227.

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Data similar to those given in Table 1 are presented in Table 2 for all classes of seamen, as of January 1, of 1929, 1930, and 1931.

TABLE 2.—AVERAGE MONTHLY WAGES OF SEAMEN ON AMERICAN AND FOREIGN STEAM AND MOTOR CARGO VESSELS OF 5,000 GROSS TONS AND OVER, JANUARY 1, 1929, 1930, AND 1931

			Amer	rican			. 1	British	1	1	anish	n	1	Dutch	1
Position	Private				U. S. Ship- ping Board		1929	1930	1931	1929	1930	1931	1929	1930	1931
	1929	1930	1931	1929	1930	1931						-00-			
Deck department:															-
First mate	\$182	\$180	\$180	\$185	\$185	\$185	1\$112	1\$112	1\$112	\$137	\$138	\$137	\$111	\$111	\$106
Second mate	160	159	158	165		165		2 77	2 77	97	105	105	84	84	8
Third mate	143	144	143	150		150	59		58	60	60	60	54		
Fourth mate	121	121	120	128	120	127	51	51	51	60	60	60	01	01	0
Boatswain	74	74	74	75	75	74	51	51	51	47	47	48	46	46	4
Carpenter	68	77	77	80	80	79	63	63	63	47	47	48	46	46	
Seaman, able	64	61	60	62	62	63	44	43	43	42	42	42	40	40	
Seaman, ordinary	45	45	45	47	47	47	29	28	28	21	21	21	20	20	
Engineer department:	20	70	10	21	21	31	20	20	40	21	21	21	20	20	2
Chief engineer	280	278	280	261	265	277	3 148	8 147	8 147	168	167	168	151	151	14
Second engineer	183	182	183	187	187	188	4 112				120	121	103		
Third engineer	161	161	161	168	167	168	8 77	\$ 76	\$ 76	91	89	90	72	72	
	145					154	6 59	6 58	6 58	71	71	71	50		
Fourth engineer	140	140	140	102	191	194	51	51	51	53	51	51	90	50	5
Junior engineer	63	64	63	02	00		46		46	43	43			40	
Fireman		70		65	66	66	7 49					43			
Greaser	71	70		72 72	72 72	72 72					47	48	46	46	4
Water tender	71	70	71	72	12	72	49	48	48	43	43	43			
Coal passer or			***	58	58	59	4.4	43	44	29	-	-			1 -
wiper	55	55	53	58	58	59	44	43	94	29	28	29	34	34	3
Radio operators (Class								0							
I): Grade I		100	100		105	105		8 83	8 83		04	020		140	1
		100	100		105	100					84			145	
Grade II								51 34	51 34		64	51			6 2
Grade III								34	34		40	44		24	2
teward department:	100	100	100	101	101	100	-	00	-	1	-	-			1
Chiefsteward	122	123	120	121	121	120		68	70		78	78			
Second steward	103	97	97	100	90	95									
Cook	100	100	99	100	100	95			66		57	58			
Second cook	81	78	77	80	80	80	43		43		28	29	52	52	5
Mess steward	49	51		51	47	47	40	39	40						
Mess boy	42	44	43	43	42	43				11	10	11	10	10	1

On the largest vessels, with superior certificate, after 3 years, \$122.

On the largest vessels, with superior certificate, after 3 years, \$83.

After 3 years, \$143; after 5 years, \$152; on motor vessels, \$227.

On motor vessels, \$146.

On motor vessels, \$95.

On motor vessels, \$95.

On motor vessels, \$51.

On wessels of Classes II and III, the wages are \$72 and \$63, respectively; the other grades are unchanged.

TABLE 2.—AVERAGE MONTHLY WAGES OF SEAMEN ON AMERICAN AND FOREIGN STEAM AND MOTOR CARGO VESSELS OF 5,000 GROSS TONS AND OVER, JANUARY 1, 1929, 1930, AND 1931—Continued

	F	renc	h	G	erma	n	I	taliar	n	No	rweg	ian	Sp	anish	1 9	S	wedis	sh
Position	1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931	1929	1930	1931
Deck department:																		
	\$102	\$102	\$102	\$86	\$91	\$90	\$72	\$71					\$122			\$105	\$109	\$10
Second mate	63	62	63	69	74	74	60	59	52		121	121	81	66	50	80	82	8
Third mate	63	62	63	52	56	56	54	54	46		94	94	69	56	50	60	61	6
Fourth mate				39	40	40				70	71	71			45			
Boatswain	24	26	26	35	38	38	46	36	33	47	48	48	36	29	29	46	46	4
Carpenter	24	24	24	35	38	38			32		47		33	27	22	44		
Seaman, able	21	22	23	30	32	31	29	28	26	42	43	43	32	26	19	42	42	4
Seaman, ordinary	19		20	14	17	15	19	19	17	22	23	23	28	23	18	30	30	3
Engineer department:		-	-		-	-	-									1		
Chief engineer	152	151	152	126	141	138	91	90	82	140	141	141	195	158	74	146	146	14
Second engineer	96	97	96	86	94	95	72	71	63			104	122	99	64			
Third engineer	63	63	63	69	77	78	60		52			84	84	68	55			
Fourth engineer	63		63	52	59	61		54	46			71	0.	00	50			
Junior engineer	00	00	00	34	39	39	01	0.4	30	10		**			00	00	00	U.
Fireman	24	26	26	32	37	37	31	30	33	44	44	44	32	26	19	37	37	4
Greaser	23		23	34	39		91	30	28	25		25		26	21			
Water tender	20	20	20	34	39				28	20	20	20	36	29	22		30	4
	01	90	23	28	32	32	28	28	25	25	25	25		23	18		24	2
Coal passer or wiper.	21	22	20	20	02	02	20	20	20	20	20	20	20	20	10	24	24	1 4
Radio operators (Class											100							
I):		44	470		20	01		90	00		86	83		33	34		54	١.
Grade I		41	47		79	81		86	62		80	80		33	34		04	5
Grade II		27	35					71	51									
Grade III		19	24					58	41									
Steward department:		-	-	-	-	-	-	-		101	400	100	4.		00		-	١.
Chief steward		39	39		38	38	27	26	24	101	102	102	41	33			74	7
Second steward				26	32	32									25			
Cook	23	23	23	35	38	38			28	80	80	80	37	30				
Second cook	16	16	16	21	23	27	30		27						18		16	1
Mess steward	19	19	19	14	15	14			27				21	17	15			
Mess boy	9	9	9	7	7	7	16	15	16	13	14	14	15	12	12	13	13	1

<sup>9</sup> Decrease for 1931 is due to exchange value of peseta.

Table 3 shows the variations in the wage rates of seamen on American merchant vessels of 500 gross tons and over, in 1931, by destination of vessel.

TABLE 3.—AVERAGE MONTHLY WAGES PAID ON AMERICAN MERCHANT VESSELS OF 500 GROSS TONS AND OVER IN 1931, BY DESTINATION OF VESSEL

				Destin	nation of	vessel			
Occupation	Great Britain	Conti- nental Europe	South Ameri- ca	and	Atlantic and Gulf coasting trade	Asia and Aus- tralia	Pacific coasting trade	Africa	Atlantie to Pacific ports and vice versa
Steam vessels:									
Able seamen	\$64	\$62	\$60	\$60	\$60	\$62	\$65	\$61	\$60
Boatswains	76	75	74	73	73	74	78	73	77
Carpenters	79	78	79	80	77	78	80	79	7
First mates	185	184	179	178	173	183	171	184	179
Second mates	164	165	156	156	151	161	147	162	158
Firemen	67	65	63	63	65	63	67	64	65
Trimmers	59	58	55	54	55	57	54	57	5
First engineers	248	244	252	245	239	266	223	260	24
Second engineers	181	180	176	174	170	181	165	183	17
Chief radio operators	105	105	103	104	99	103	101	102	10
Second radio operators	90	90	87	91	85	90	78	90	9
Sailing vessels:		- 11	1912	100 July 1			1000000	1	
Able seamen	45	45	55	57	51	45	67	45	5
Boatswains	50	50	60	57	67	57	50	50	5 5 7
Carpenters									7
First mates	75	75	82	84	90	87	102	75	12
Second mates			70	73	80	90	110		11.

#### Average Weekly Earnings in New York State Factories, 1918 to 1931

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THE average weekly earnings of office and shop employees in representative factories in New York State from 1918 to 1931 are shown in the following table taken from the Industrial Bulletin of the State department of labor for January, 1932:

AVERAGE WEEKLY EARNINGS IN REPRESENTATIVE NEW YORK STATE FACTORIES

[Includes all employees in both office and shop. The average weekly earnings are obtained by dividing the total weekly pay roll by the total number of employees on the pay roll for the given week. Reports cover the week including the 15th of the month]

Month	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931
Chrysten & account	\$16. 81 17. 66	\$23. 03 22. 07					\$27. 81 . 27. 73						\$29, 80 29, 46	
Sebruary	18. 71	22. 20	27. 87	26. 97	24. 57	26, 92	28. 16	28. 45	29. 04	29.78	29.64	30. 35	29, 90	27. 9
April	19. 25 19. 91	22. 23		25. 86	24. 59	27.63	27. 70 27. 56	28, 07	28. 69	29. 18	29. 19	30.03	29. 10	26.
uneuly	20. 44 20. 78					27. 87 27. 54		27, 94 27, 98						
ugust	21. 23 22. 31	23. 85	28. 71	25. 43	25. 10	27. 12	27. 40	28 16	28. 86	29. 29	29. 38	30.09	28. 59	26.
ctober	22. 34	24. 41	28 93	24. 53	25. 61	27. 72	27. 53	28. 57	. 29. 35	. 29, 28	29.78	30.08	28. 03	25.
lovember	21. 60 23. 18			24. 32 24. 91			27. 66 28. 25			. 28. 75 29. 57			27. 42 27. 52	
Average	20. 35	23. 50	28. 15	25. 72	25. 04	27. 24	27. 68	28. 26	29. 02	29. 30	29. 44	29. 99	28. 81	26.

## Wages and Labor Conditions in Alaska, 1930-31

In THE latter part of 1930 conditions affecting labor in Alask a were in general satisfactory, but in the spring of 1931 some unemployment was reported. This unemployment for the most part was the result of an influx of laborers from the States where, it was stated, labor conditions were generally unfavorable. In the same spring there was a curtailment in the Territory's fishing industry and consequently less work for the fishing population. The situation, however, improved substantially toward midsummer after a large number of construction projects throughout Alaska had been started and seasonal mining operations were under way. No labor shortages or labor disturbances were reported. Wage schedules continued "well stabilized and satisfactorily adjusted to living costs," according to the annual report of the governor of the Territory for the fiscal year ending June 30, 1931, in which the following information is also given.

In 1930 there were 27,568 persons employed in the Alaskan commercial fisheries—a decrease of 1,715 as compared with the previous year. Among these 27,568 workers there were 15,451 whites, 4,962 natives, 4,222 Filipinos, 1,258 Japanese, 771 Chinese, 733 Mexicans, 90 Negroes, and 81 miscellaneous (Kanakas, Koreans, Porto Ricans, etc.)

During 1930 there were approximately 3,820 men employed in the mining industry, which is a decrease of about 220 under the number employed during 1929. This decrease was due largely to the curtailment of operations at the copper mines. Of the men employed in the mining industry during 1930, approximately 2,220 were engaged in connection with placer mining, 98 in coal mining and 1,502 in lode mining. In addition to the above, there were perhaps between 300 and 400 men engaged in prospecting for lode and placer deposits in the Territory. Some of the increased interest in prospecting is probably due to the fact that a number of men who usually work for wages during the season were unable to find employment and engaged in prospecting instead.

The fishing industry is carried on almost entirely in the coastal districts of the first and third judicial divisions. The work season lasts from four to eight months, being dependent upon the nature and

situation of the fishery.

In the first judicial division, which includes all of the southeastern part of the Territory, from 35 to 50 per cent of the labor supply is secured from the residents of the Territory, approximately 10 per cent of those so secured being native Indians. Further labor needs are met by importation from the States for the fishing season only. About 45 per cent of these imported workers are employed under the socalled "oriental contract system."

Owing to the remoteness of many of the large canneries and the sparsity of the resident population in the third division, where the largest percentage of the fishery labor is employed, from 15 to 20 per cent of the total labor is secured locally, the balance being imported from the States. Of the labor secured locally in the third division, from 50 to 80 per cent are native Indians. per cent of the labor imported into the third division during the fishery season is contract labor.

### Wages

#### Fishing Industry

In the fiscal year 1930-31 the daily wages for general cannery labor resident in the Territory were as follows: In the first judicial division men received from \$3.50 to \$5 and women from \$2 to \$3.50; in the third judicial division men received from \$2.50 to \$5 and women from \$2 to \$4. All other labor in the fishing industry is remunerated according to the scale shown in the following table. In most cases board was furnished in addition to wages.

TABLE 1.-MONTHLY WAGES IN THE ALASKAN FISHING INDUSTRY, 1930-31

Occupation	First divi- sion	Third divi- sion	Occupation	First divi- sion	Third divi- sion
ForemenOutside foremen	\$225 200	\$230 180	Blacksmiths	\$130 100	\$100 100
Boat captains	145	150	Trapmen	90	86
Boat crews, deck hands, etc	100	80	Cooks	115	12
Boat engineers	130	130	Flunkeys	80	71
Machinists	175	175	Iron-chink men	115	12
Machinists' helpers	100	95	Retort men	115	110
Carpenters	125	125	Storekeepers	110	10
Carpenters' helpers	90	85	Miscellaneous laborers	85	8
Pile-driver crews	90	90			

#### Mining Industry

Labor conditions in the mining industry in Alaska differ greatly according to the location of the mines and the character of the work. General labor in placer mining received board and from 50 to 80 cents per hour, 8 to 10 hours constituting a shift. The cost of board per day was from \$1.50 in the Cook Inlet region to \$4 in the remote parts of the Territory such as Koyukuk and Shushana. Skilled workers' wages range from \$5 per day and board for oilers in the Yentna district to \$13 per day and board for dredge masters in the Iditarod-Innoko district.

Coal miners' wages were quite uniform.

Underground coal miners and timbermen receive \$8.60 per day; underground laborers, trammers, and rope riders, \$7.80 per day; and outside labor, \$5.50 per day. Fire bosses are paid \$250 per month and foremen from \$250 to \$300 per month. Deductions from the above wages are made for board at rates of from \$1.50 to \$2 per day.

With the exception of small drift-mining operations, prospecting, and development work, Alaskan placer mining is restricted to the open season—ordinarily from May or June to the freeze-up in September or October. In the fall of 1930, in the Nome district, however, some dredges were able to operate until November, and in the Fairbanks district two dredges were in operation until the middle of January, 1931. Lode mining is carried on mainly in the coastal regions of the first and third judicial divisions and absorbs about 1,500 men throughout the year.

The following table shows the wage scales for the more important

lode mines of the coastal regions in 1930-31.

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TABLE 2.-WAGES IN CERTAIN ALASKAN LODE MINES, 1930-31

Occupation	Per 8-hour shift	Occupation	Per 8-hour shift
Machine-drill men Machine helpers Muckers Trimbermen Trackmen Pipemen Carpenters	\$4.00-\$6.00 4.00- 5.00 4.10- 5.25 5.00- 6.00 4.50- 5.25 5.00- 5.50 5.50- 7.00	Blacksmiths Carpenters' helpers Blacksmiths' helpers Hoisting engineers Cagers Laborers	\$5. 75-\$7. 00 4. 00- 5. 00 4. 00- 5. 50 4. 00- 5. 75 4. 35- 5. 25 3. 50- 5. 00

From the above wages deductions of \$1 to \$1.50 per day are made for board and of \$1.50 to \$2.40 per month for hospital and medical care.

Letting contracts for a considerable part of the underground work is a prevalent practice both at the larger lode mines and at the coal mines.

# Actual Earnings in the German Woodworking Industry, March,

AN INVESTIGATION of the actual earnings of the workers employed in the woodworking industry in Germany, undertaken by the Federal Statistical Office, covered 1,262 establishments employing 23,752 workers over 22 years of age; among these are 1,195 establishments with 21,442 male workers engaged in general woodworking and furniture making, and 67 establishments with 2,310 workers, including 245 female workers, engaged in musical instrument making.

The following table shows the average actual hourly and weekly earnings, average hours of labor, and a comparison of actual earnings

and agreement rates of wages of adult workers:

<sup>&</sup>lt;sup>1</sup> Germany. Statistiches Reichsamt. Wirtschaft und Statistik, Oct. 2, 1931, pp. 734-736.

## AVERAGE ACTUAL EARNINGS, AVERAGE HOURS OF LABOR, AND COMPARISON OF ACTUAL EARNINGS WITH AGREEMENT RATES, MARCH, 1931

TAB

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[Conversions into United States currency on basis of mark=23.8 cents; pfennig=0.238 cent]

	Hourly	y earn-	Average	Agen	ly net ings	Per cent actual hourly
Industry group and class of workers	German cur- rency	United States cur- rency	hours per week	German cur- rency	United States cur- rency	earnings
Woodworking and furniture manufacture						
	Pfen-					1
Skilled workers:	nigs	Cents		Marks		1
Time work	117. 3	27. 9	39. 63	46, 49	\$11.06	107.3
Piece work Semiskilled workers:	120. 8	28. 8	40. 43	48, 85	11, 63	103.0
Time work	91. 9	21.9	40, 62	37, 34	8, 89	99.4
Piece work	90.6	21. 6	40, 70	36, 89	8, 78	00. 1
Unskilled workers, time work	89. 1	21, 2	41.08	36, 59	8.71	99.3
Musical instrument manufacture						
Male workers:						
Skilled workers—						
Time work		29. 2	39.8	48, 83	11.62	111.7
Piece work		30.0	34. 7	43, 70	10.40	103, 9
Semiskilled workers, time work	95, 9	22, 8	38. 2	36, 59	8.71	97.1
Unskilled workers, time work	98. 0	23, 3	40. 2	39, 39	9. 37	103. 2
Female workers:		-				
Skilled workers, piece work	74.9	17.8	29. 2	21.88	5. 20	96.1
Semiskilled workers—						
Time work	65. 8	15. 7	38. 5	25. 34	6.03	112.8
Piece work	67. 6	16. 1	34.7	23. 48	5. 59	105.1

<sup>&</sup>lt;sup>1</sup> Including additional pay for overtime, night, Sunday, and holiday work, and for installation and repair work.

#### Actual Earnings in the Confectionery, Baking, and Pastry Trades in Germany in March, 1931

AN INVESTIGATION of the actual earnings of workers in the German confectionery, baking, and pastry trades in March, 1931, covering 299 establishments with 33,405 workers in 137 localities in Germany was undertaken by the German Federal Statistical Office.

The average actual hourly and weekly earnings and weekly working hours in these trades, as shown by that study, are given in the following tables.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Germany. Statistisches Reichsamt. Wirtschaft und Statistik, Nov. 1, 1931, pp. 767-770.

TABLE 1.—AVERAGE HOURLY EARNINGS IN CONFECTIONERY, BAKING, AND PASTRY TRADES, MARCH, 1931

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[Conversions into United States currency on basis of pfennig=0.238 cent]

		e hourly sings	Agreeme rates on piece wo	Per cent actual earnings form of		
Class and age of workers	German currency	United States currency	German	United States currency	agree- ment wages	
Skilled workers, male: 20-23 years—time work	Pfennigs 91. 8	Cents 21. 8	Pfennigs 89. 3	Cents 21, 3	102. 1	
Over 23 years— Time work	109. 3 129. 2	26. 0 30. 7	101. 1 119. 1	24. 1 28. 3	107. 4 108. 2	
Piece work	129. 2	30.7	119. 1	28. 3	108. 2	
18-20 years—time work	60. 9	14.5	59. 7	14.2	100.	
20–23 years—time work Over 23 years—	77. 9	18. 5	76.0	18. 1	101.	
Time work	89.3	21.3	85. 8	20. 4	103.	
Piece work Female workers: 16-18 years—	104. 1	24.8	97.8	23. 3	105.	
Time work	33. 5	8.0	32.7	7.8	101.	
Piece work	43.0	10.2	38.8	9, 2	110.	
18-20 years-	1					
Time work	47.1	11.2	46. 4	11.0	100.	
Piece work	57. 5	13.7	55. 1	13. 1	104.	
Over 20 years—						
Time work	58. 0	13.8	56.0	13.3	103.	
Piece work	67. 7	16. 1	65, 6	15. 6	102.	

TABLE 2.—AVERAGE WEEKLY HOURS OF LABOR AND EARNINGS IN CONFECTIONERY, BAKING, AND PASTRY TRADES, MARCH, 1931

[Conversions into United States currency on basis of mark=23.8 cents]

		Weekly	earnings
Class and age of workers	Hours of labor per week	German currency	United States currency
		Marks	
Skilled workers, male, time and piece work	46. 6	51. 54	\$12. 27
20-23 years, time work Over 23 years—	45.6	41. 81	9, 95
Time work		51. 35	12, 22
Piece work		57. 48	13. 68
Unskilled workers, male, time and piece work	46. 6	40. 49	9.64
18-20 years, time work	48. 1	29. 32	6. 98
20-23 years, time work Over 23 years—	47. 0	36, 59	8. 71
Time work	46, 4	41. 44	9. 86
Piece work	47. 4	49. 31	11. 74
Female workers, time and piece work	44. 4	25. 18	5. 99
Time work	42.7	14, 30	3. 40
Piece work	40.9	17.57	4. 18
18-20 years—			
Time work	45. 0	21, 17	5. 04
Piece work	43. 1	24, 82	5, 91
Over 20 years—			
Time work	44. 8	25, 97	6. 18
Piece work	44. 5	30, 08	7. 16

## Cut in English Dock Workers' Wage Rates 1

ON JANUARY 4, 1932, a new agreement as to wage rates for dockers in the English ports became effective, as the result of long negotiations. Up to that date there had been no change in wages since 1924, when the daily rate was fixed at 12s. for the large ports and 11s. for the smaller ports. As early as May, 1931, negotiations for a change were begun, the employers demanding a cut of 2s. a day in wages and drastic changes in conditions of employment, demands which the men resisted determinedly. A deadlock was reached, and for a time serious trouble seemed imminent, but after consideration both sides receded from their uncompromising attitude, and the employers presented modified proposals which were referred to a subcommittee of the industrial council for the port industry. This body succeeded in evolving a solution which has been accepted by both sides.

Under the new terms, day wages are reduced by 10d. a day, and piece rates by 7 per cent, with a minor modification relating to overtime at the week end. Day rates will therefore be 11s. 2d. in the large ports and 10s. 2d. in the small ports, rates which, the Manchester Guardian points out, are actually higher than the rates paid from October, 1922, to June, 1924. No changes are to be made in the working conditions established by earlier agreements.

<sup>&</sup>lt;sup>1</sup> Data are from Economist (London), Dec. 12, 1931, p. 1118; and Manchester Guardian, Dec. 12, 1931, p. 11.

## General Survey of Wages in Austria 1

THERE is no central organization in Austria which compiles statistics of actual wages for the whole territory of the Republic. There are seven chambers of labor, at Vienna, Graz, Linz, Salzburg, Klagenfurt, Innsbruck, and Feldkirch, the one at Vienna being the most important. All seven chambers collect considerable data on minimum wages, but, with the exception of the Vienna Chamber, do not present them in statistical form.

#### Hours of Labor

The hours of labor (full time) are fixed in Austria by law at 8 per day, and 48 per week. A number of factories, when working full time, work more than 8 hours per day but close at noon on Saturday.

Due to the prevailing economic depression a large number of companies in Austria are now working short time. In many instances arrangements have been made between the companies and the workers to cut down the hours of labor instead of dismissing part of the workmen. At present the 42-hour week is very frequent in Austria, but in many cases the working hours have been cut down even to 3 or 4 days per week. In some mines the laborers are divided into two groups which alternate in employment, one group working one week and the other working the next week.

All weekly wages given in this report are based on the 48-hour week. In making conclusions as to the actual income of the laborer, it should be noted that, at present, only a small proportion of labor-

ers are drawing the full weekly wages.

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## Payment for Overtime

Most collective agreements provide that ordinary overtime shall be paid for at 50 per cent above the normal rate. The rates for so-called "night work" (Nachtarbeit)—usually after 8 p. m.—is 100 per cent higher than the normal rate. The provisions concerning night work are, of course, not applied in cases of companies working in two or three 8-hour shifts. Work on Sundays and legal holidays is paid for at double the normal rate.

## Holidays, Vacations, etc.

The number of holidays in Austria is relatively very large. It is difficult to decide which of these holidays are considered as legal, as there is practically no uniformity as to the recognition of the various holidays. Certain holidays, such as November 12 and May 1, are considered legal State holidays and are generally recognized as such. As regards religious holidays, however, certain ones are recognized by the Government, by banks and various financial institutions as full holidays and a number as half holidays. The number of church holidays recognized by industry in general is smaller than that recognized by Government bureaus, banks, etc.

As regards the payment for holidays, there is the same lack of uniformity as in regard to the recognition of holidays. Collective agree-

<sup>&</sup>lt;sup>1</sup>This report was prepared by Ernest L. Harris, American Consul General, Vienna, Austria.

ments differ greatly as regards the number of paid holidays. According to information obtained from the Vienna Chamber of Labor there are many companies in Austria which pay for no holidays whatsoever. About 90 per cent of the companies in the metal industry, the most important branch of industry in Vienna, pay for no holidays. The allowance of 2 to 5 paid holidays per annum is frequent in other industries. The largest number of paid holidays, 15 per annum, is found in the graphical industry (graphische Industrie). It is not unusual in Austria for the number of holidays recognized by certain industries to be much larger than the number of paid holidays. Consequently, it happens frequently that the wage for certain weeks which include recognized holidays is smaller than the normal weekly wage. This should be considered when making conclusions as to the actual income of the workers.

## Sex and Age Differences Recognized in Wage Fixing

In Austria a system of wage payment according to age is current. Under this arrangement, a worker in a given occupational group is graded and paid on a sliding-scale basis. Thus, the young worker may look forward to automatic increases in wages up to 22 or 24 years of age. In certain instances gradations of pay are based on the number of years in service subsequent to completion of apprenticeship.

Wages of female employees are usually 20 to 30 per cent and even more below the wages of males of the same occupational group. Figures given in Table 2 clearly illustrate the extent to which the sex difference is recognized in wage fixing.

## Payments Supplementary to Wages

According to information obtained from the Chamber of Labor, family allowances are not usual in Austria, as far as laborers are concerned. Certain Styrian coal mines pay, in addition to the normal wage, an allowance of 2 groschens <sup>2</sup> (0.3 cent) per child for every hour of labor.

Payments in kind are usual in Austria as regards farm laborers. The latter usually get board and lodging and, in some instances, even clothes. In industry, however, payments in kind are not customary. The Styrian coal mines, in addition to the wage, allow 400 kilograms (882 pounds) of lignite per month to every worker. The sugar industry grants the following payments in kind, in addition to the normal wage: 3,600 kilograms (7,936 pounds) of coal; 50 kilograms (110 pounds) of cube sugar; 1 cubic meter (423.799 feet board measure) of hard wood; 30 kilowatt hours of electric current; 12 schillings (\$1.69), rent allowance; and the use of 1,000 square meters (0.247 acre) of farming land.

The Austrian Tobacco Monopoly gives certain quantities of cigarettes or cigars, or tobacco to its workers. Breweries grant a certain quantity of beer per day, and certain foodstuff industries sell their products at reduced prices to their employees. With few exceptions, these payments in kind are allowed on the basis of private agreements between the company and the workers and are, therefore, not included in collective agreements.

<sup>&</sup>lt;sup>2</sup> Conversions into United States currency on basis of schilling (100 groschen)=14.07 cents.

Free housing is usual in case of laborers working on farms and in forests. Some of the larger factories and mines in rural districts have their own workmen's houses. The worker usually pays a rent which is just large enough to pay for the upkeep of the house. The company receives no return on the invested capital. The financial benefit of the worker, however, is negligible, as rents are very low in Austria.

Most of the new workmen's houses erected after the war have little gardens which can be used by the tenants for the cultivation of vegetables, fruits, etc. The space is usually very small and the financial benefit derived from the use of such garden land is comparatively

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#### Deductions from Wages

There is no special wage tax in Austria. Social insurance contributions are relatively very high in Austria. In Table 1 there is shown a summary of contributions to be made by both employers and employees in Vienna toward social welfare institutions, as far as they are collected by the Vienna Sick Insurance Bureau. These contributions represent, for the most part, practically all the expenditure for social welfare. They do not, however, include contributions for accident insurance, which are paid by the employer. The latter has to bear two more items of expenditure which fall under the category of social welfare, namely, the so-called "Krankengeld" or a certain sum of money which the employee receives from the employer in case of sickness, and the so-called "Urlaubsentgelt" or continued payment of a worker while on his regular leave of absence.

The scale of contributions for social insurance is shown in Table 1. As may be seen from the table, in the lowest class, comprising wages up to 95 cents per week, the total contributions for the various funds amount to 20 cents per week, or more than 20 per cent of the wage. Of these contributions, 11 cents must be paid by the employee and 9 cents by the employer. Consequently, the laborer earning 95 cents per week must pay 11.5 per cent of his wage for social contributions.

It should be mentioned, however, that there are very few workers in Austria earning only 95 cents per week or less; 11 per cent fall in class 9, thus earning more than \$4.05 per week, and 65 per cent fall in

class 10, earning more than \$5.07 per week.

A worker who earns \$4.10 per week pays 48 cents for social welfare contributions, or almost 12 per cent, while a worker with a weekly wage of \$5.10 pays 54 cents, or more than 10 per cent of his wage, for social welfare contributions. However, as the weekly contributions borne by the laborer can never be more than 54 cents, the percentage of the wage thus deducted forms a decreasing per cent of the wage. If he is a highly skilled worker and receives a weekly wage of \$12, the deductions from his wage amount to only 4.5 per cent.

In the classification of the laborers into wage classes, not only the actual cash wage but also bonuses, tips, payments in kind, etc., are

included.

TABLE 1.—SCHEDULE OF WORKERS' CONTRIBUTIONS FOR SOCIAL INSURANCE, JUNE 1, 1931

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		Weekl	y contrib	ution (i	n cents) t	oward-		
Wage class (weekly wages)	Sick- ness insur- ance	Unemploy- ment relief fund	Dis- tress relief fund	Old- age pen- sion	Maintenance of employment	Cham- ber of labor	Estab- lish- ment ofsettle- ments	Tota
Class 1 (up to \$0.95); EmployeeEmployer	5. 07 2. 53	3. 37 3. 37	1, 27 1, 27	0. 70 . 70	0. 56 . 56	0. 42	0. 14	11.:
Total	7. 60	6.74	2.54	1. 40	1. 12	. 42	. 14	19.
Class 2 (\$0.95 to \$1.17): EmployeeEmployer	5. 91 2. 95	3. 94 3. 94	1. 55 1. 55	. 84	. 56	. 42	. 14	13.
Total	8. 86	7.88	3. 10	1. 68	1. 12	. 42	. 14	23.
Class 3 (\$1.17 to \$1.46); Employee Employer	7. 32 3. 66	4. 92 4. 92	1. 97 1. 97	1. 13 1. 13	. 56	. 42	. 14	16. 12.
Total	10. 98	9. 84	3. 94	2. 26	1. 12	. 42	. 14	28.
Class 4 (\$1.46 to \$1.58): Employee Employer	8, 44 4, 22	5. 77 5. 77	2. 25 2. 25	1. 27 1. 27	. 56	. 42	. 14	18. 14.
Total	12.66	11.54	4. 50	2. 54	1. 12	. 42	. 14	32,
Class 5 (\$1.58 to \$2.08): Employee Employer	9. 85 4. 92	6, 61 6, 61	2. 53 2. 53	1. 55 1. 55	. 56	. 42	. 14	21. 16.
Total	14. 77	13. 22	5. 06	3. 10	1. 12	. 42	. 14	37.
Class 6 (\$2.03 to \$2.53): EmployeeEmployer	12. 66 6. 33	8, 58 8, 58	3. 38 3. 38	1, 83 1, 83	. 56	.42	. 14	27. 20.
Total	18, 99	17. 16	6. 76	3. 66	1, 12	. 42	. 14	48.
Class 7 (\$2,53 to \$3.04): Employee Employer	15. 48 7. 74	10. 41 10. 41	4. 08 4. 08	2, 39 2, 39	. 56	.70	. 14	30, 25.
Total	23. 22	20. 82	8. 16	4.78	1. 12	.70	. 14	55.
Class 8 (\$3.04 to \$4.05): Employee	19. 70 9. 85	13, 36 13, 36	5. 21 5. 21	2. 95 2. 95	. 56	.70	. 14	42. 32.
Total	29. 55	26. 72	10. 42	5. 90	1.12	.70	. 14	74.
Class 9 (\$4.05 to \$5.07):     Employee	22, 51 11, 26	15, 19 15, 19	5. 91 5. 91	3. 37 3. 37	. 56	.70	. 14	48. 36.
Total	33. 77	30. 38	11.82	6.74	1, 12	.70	.14	84.
Class 10 (over \$5.07): Employee	25. 33 12. 66	17. 16 17. 16	6. 61 6. 61	3. 80 3. 80	. 56	.70	.14	54. 40.
Total.	37. 99	34. 32	13. 22	7. 60	1, 12	.70	. 14	95.

Apprentices, during the first two years of apprenticeship, are usually grouped under wage class 1. For the remaining time of apprenticeship they are included in class 2. However, if their weekly wage exceeds 10 schillings (\$1.41) they must be grouped the same way as all other laborers in accordance with the schedule given in the table. The social welfare contributions of apprentices must be paid entirely by the employer. The same applies to laborers who receive no cash wage whatsoever.

The contribution for unemployment insurance is equal to 90 per cent of the contribution for sickness insurance. In Vienna and Lower Austria the contribution toward the distress relief fund equals 35 per cent of the contribution for sickness insurance, while in other Provinces it ranges from 25 to 45 per cent. The contribution for old-age pensions is equal to 20 per cent of the contribution for sickness insurance fund.

As can be seen from the above table, the contribution toward the maintenance of the employment bureau and toward the establishment of settlements amounts to 1.12 cents and 0.14 cent, respectively, for all wage classes, a total of 1.26 cents. For laborers of the Vienna building industry these two contributions amount to 2.53 cents instead of 1.26 cents for all wage classes. In this industry employer and employee each pay 50 per cent of these contributions.

### Wage Trends and Living Costs

Numerous increases in minimum wage rates for the Vienna district could be noted during the second half of 1929. There were scarcely any industries where minimum wages remained unchanged during that period. The increases fluctuated widely, from 2 to 20 per cent. Wages paid by the electric bulb and cable industry showed an increase of from 23 to 40 per cent. However, this abnormally large increase was due to the fact that increases of actual wages since 1925 were included in a new collective agreement.

The upward trend in wage rates continued during the first half of 1930, but was far less accentuated than during 1929. The number of industries which increased their wages and the percentage increases were proportionally much smaller than during 1929, ranging from

0.72 to 9.24 per cent.

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The collective agreements of the strong current and weak current industry were combined in a new agreement. The latter showed increases up to 39 per cent. However, actual wages were increased only slightly. This is accounted for by the fact that for a number of years actual wages paid had surpassed the minimum rates fixed by the last collective agreement in 1924. The same was true with regard to the brass furniture and safe industries, where actual wages remained practically unchanged, while, on the other hand, minimum wage rates were increased by as much as 39.5 per cent.

A wage increase in the dyeing industry of about 1 per cent, which was agreed upon in 1929, became effective during the first half of 1930.

After June, 1930, the upward trend in minimum wage rates came to an almost complete standstill. It was during the second half of 1930 that the first wage reduction on the basis of a collective agreement was reported.

There were practically no increases in wage rates during 1931. An increase which occurred in the building industry was cancelled again. According to information obtained from the Chamber of Labor, wage reductions have been frequent since the beginning of 1931, but no statistics are at present available on these reductions. Collective agreements concluded during 1931 show reductions of 4, 5, and 6 per cent in the minimum wages in some groups of the metal industry.

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Actual wages in many industries were reduced even more, sometimes as much as 15 and even 20 per cent. In many cases, reductions of actual wages do not necessitate the conclusion of new collective agreements, because the unreduced actual wages were higher than those fixed by collective agreements.

Summarizing, it may be said that at present a marked downward trend in wages can be noted. This trend brings actual wages closer to the level of the minimum wage rates established by collective

agreements.

The group of workers engaged in manufacturing, commerce, and trade is the most important in Austria. There are certain statistics compiled on the income of these laborers, but notwithstanding this fact, it is very difficult to come to a conclusion as to the average

wage of all these laborers.

According to statistics compiled by sickness insurance institutions. the average weekly wage may be estimated at about 40 schillings (\$5.63). On the other hand, the average calculated by the Vienna Chamber of Labor considerably exceeds this figure. It amounts to 48 schillings (\$6.75). This average takes into consideration the difference between wages paid in Vienna and those paid in other industrial districts of Austria; the Vienna Chamber of Labor estimates the average weekly wage of a skilled laborer at 54 schillings (\$7.60), that of an unskilled laborer (helper) at about 42 schillings (\$5.91).

These averages, when calculated on a gold basis and compared with corresponding pre-war figures, show an increase of about 42 per cent. Due to the increase in the cost of living since 1914, the purchasing value of these wages has not kept pace with the increase in wages. However, it is estimated that since 1914 the purchasing value of wages of laborers engaged in manufacturing, commerce, and trade

has, on the average, increased by about 37 per cent.

## Wages in Vienna

In January, 1930, comprehensive wage statistics for the Vienna district were published by the Federal Bureau for Statistics (Bundesamt für Statistik). Since that time only changes in wage rates during 1930 have been published. On the basis of these publications, the 1929 statistics have been revised and are shown in Table 2. Changes in wage rates which occurred during 1931 could not be taken into consideration as they have not been published.

# TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATIONS IN THE VIENNA DISTRICT, DECEMBER 31, 1930

[Conversions into United States currency on basis of schilling=14.07 cents]

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Industry, and occupation or class of worker	Minimum weekly wages	
	Austrian cur- rency	United States currency
Brick industry Skilled workers	Schillings 48, 38–53, 18 34, 56	\$6, 81-\$7, 48 4, 80
Aborers, female Youthful laborers, male Youthful laborers, female	23. 42 19. 58 15. 26	3. 30 2. 78 2. 18
Cement industry		
skilled workers over 22 yearsskilled workers under 22 yearsskilled workers under 22 yearsskilled, under 22 yearssaborers, male, under 17 yearssaborers, female, under 18 years	49. 92 44. 16 27. 84	7. 20 7. 00 6. 21 3. 90 3. 11 3. 11
Clothing industry		
Men's tailors, large concerns:  Class Ia firms	48. 26 87. 70	9. 56 6. 79 12. 3- 8. 49
Men's tailors, small concerns: Class Ia firms Class IIb firms	68. 09	9. 50 6. 80
Adies' tailors: Laborers, male, working independently Jacket workers, female Women working independently Helpers, after five years Finished apprentices	28. 80–42. 72 23. 04–38. 88	6, 75–10, 0 4, 86–8, 0 4, 05–6, 0 3, 24–5, 4 1, 96–3, 50
Ready-made clothes: Cutters and master tailors Master tailors, female Cutters Pressers. Helpers, female, over 16 years	36. 48 51. 84 51. 84	8.8 5.1 7.2 7.2 4.6
fen's ready-made clothes: Independent workers, male Other workers, male Finished apprentices, under 20 years	38. 88	6. 9 5. 4 4. 0
Vaist making: Independent waist makers, female Independent waist finishers, female Finished apprentices after 1 year rtificial flower and feather industry:	33. 44 31. 68	4. 7 4. 4 3. 2
Forewomen  Laborers, female, after 4 years  Finished apprentices  Helpers, female	23. 30 19. 40	5. 1 3. 2 2. 7 2. 7
fen's hat industry: Skilled workers, piece rate Semiskilled workers Women Vomen's hat industry:	50. 00-70. 00 37. 80-56. 70 24. 80-34. 00	7. 04-9. 8 5. 32-7. 9 3. 49-4. 7
Finishers, time workers— Under 22 years Over 22 years Finishers, piece workers Straw hat sewers, female, skilled—	61, 00 70, 00 50, 00–80, 00	8. 5 9. 8 7. 04–11. 2
Time workers Piece workers	64. 00 28. 00–55. 00	9. 0 3. 94–7. 7
Iilliners: Hand workers, female— Independent	33. 00 27. 00 21. 00	4. 6 3. 8 2. 9
urriers: Male workers Machine operators, female Trimmers, female Preparers Pressers, female Helpers, female	47. 78 21. 35–42. 68 79. 20 35. 52	5. 48-10. 9 6. 7 3. 00-6. 0 11. 1 5. 0 4. 5

TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATIONS IN THE VIENNA DISTRICT, DECEMBER 31, 1930—Continued

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Industry, and occupation or class of worker	Minimum wee	ekly wages
	Austrian currency	United States currency
Chemical industry		
Chemical-technical industry: Skilled workers	Schillings 46, 08	\$6, 4
Skilled helpers Unskilled helpers over 17 years Forewomen Helpers, female Match industry:	38, 88-43, 68 37, 92 26, 40 24, 00	.5. 47-6. 1 5. 3 3. 7 3. 3
Inspectors	50. 88 46. 56 27. 36	7. 2 7. 1 6. 3 3. 8
Unskilled helpers, female	26, 40	3.
Skilled workers Unskilled helpers over 17 years Machine operators, female Helpers, female, over 17 years	45. 12 31. 20	7. 6 6. 3 4. 3 4. 1
Oil, soap, perfumery, etc., industry: Skilled workers	55, 68	7.
Skilled machine attendants Unskilled laborers Forewomen Machine operators, female	53. 76 47. 52 32. 44	7. 6. 4. 4.
Mineral oil refineries: Skilled workers, over 22 years	65.76	9.
Steam boiler firemen, over 22 years Skilled helpers, male, over 22 years Skilled laborers, female, over 17 years Unskilled helpers, male, over 17 years Unskilled helpers, female, over 17 years	60. 48 56. 76 36. 00	8. 7. 5. 7. 4.
Special laborers		7. 70-7.
First machine helpers Attendants, under 17 years Sorters, female Helpers, female	44, 64–46, 56 20, 64 24, 00–25, 44 20, 64–24, 00	6. 28-6. 2. 3. 38-3. 2. 90-3.
Rubber industry		
Skilled workers. Skilled workers, piece work Unskilled helpers, male	57, 60 53, 80-58, 80 43, 60	8. 7. 57-8. 6.
Workers in—	-	
Group I	52, 32 48, 42 36, 24 35, 28 16, 92	7. 6. 5. 4. 2.
Glass industry		
Glass blowers, during first year killed workers killed workers, piece rate	79.52	5. 11. 14.
Polishers— After first half-year After first year After fifth year	36. 48	5. 7. 10.
Bookbinders, during first year	29, 50	4.
killed bookbinderspecial workers:	58. 25	8.
During first year During third year	47. 20	4. 6.
emale workers: During first half year After second half year	14. 05	1. 4.
pecial workers, female: During first half year	15. 30 35. 10	2. 4.
Under 20 years	25, 40	3.

TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATIONS IN THE VIENNA DISTRICT, DECEMBER 31, 1930—Continued

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	Minimum wee	ekly wages
Industry, and occupation or class of worker	Austrian cur- rency	United States currency
Cigarette industry	Schillings	
Machine operators, under 18 years	27. 80	\$3.9
Over 16 years Over 18 years	26, 50 27, 10	3.73
Machine operators over 18 years	40.80	5. 74
Forewomen	30, 90 62, 10	4. 3. 8. 7
Wood industry		
Skilled woodworkers, joiners, piano makers, upholsterers, basket makers,		1
woodcuttersFinished apprentices:	63. 84-67. 20	8. 98-9. 4
During first year	24.00-48.00	3. 38-6. 7
During second year	45, 60-49, 44 48, 00	6. 42-6. 96 6. 73
Skilled helpers, male	44. 16	6. 2
Unskilled helpers, male Skilled helpers, female	41. 76 38. 88	5, 8 5, 4
Unskilled helpers, female		4. 5
Leather industry		
Pocketbook workers: Highly skilled workers	66, 00	0.0
Skilled workers, over 22 years		9. 2 7. 22-8. 6
Manufacture of fiber suitcases and trunks: Helpers, beginners	31, 50	4.4
Helpers, skilled	46. 50	6. 5
Helpers, female, beginners Helpers, female, skilled	25, 50 38, 00	3. 5 5. 3
Leather-belt making:		
Skilled workers, over 22 years Helpers	49. 44–62. 40 44. 64	6. 96-8. 78 6. 2
Harness makers: Over 22 years	65, 08	9, 10
Piece rate, average	80, 00	11. 2
Leather workers: Skilled workers	56, 16-61, 92	7, 90-8, 7
Helpers	54.72	7.7
Bakeries:		
Workers in mechanically equipped plants—	2000	
Employing up to 3 helpers Employing more than 3 helpers	76, 60 77, 20	10.7 10.8
Helpers		6. 5
Workers in nonmechanically equipped concerns— Employing up to 3 helpers	75, 60	10. 6
Employing more than 3 helpers	76. 10	10. 7
Breweries: Foremen	88.47	12.4
Skilled workers	84 50	11.9
Skilled helpers Fermenting-room helpers	74. 78 67. 69	10. 5 9. 5
Other helpers— Males	1,000	
Females.	61. 35 38. 07	8. 6 5. 3
Milling industry:		
First machine attendants Skilled workers	56. 16-61. 44 52. 80-57. 60	7. 90-8. 6 7. 43-8. 1
Helpers, males	46. 08-50. 88	6. 48-7. 1
Helpers, females Cobacco industry:	27. 28-32. 12	3. 84-4. 5
Workers, female, general	40, 80	5.7
Wrappers, female, and general workers, male	55, 92	7. 0
Tobacco dampers, roasters, cutters, male	62.76	8.8
Skilled workers	67. 68	9. 5
Vinegar masters	76. 80	10.8
Coopers, foremen	68. 10	9. 5 8. 5
Helpers, male		

TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATION TABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED TABLE 2.—MINIMUM WAGES IN

	Minimum wee	ekly wages	
Industry, and occupation or class of worker	Austrian cur- rency	United States currency	
Food and drink industries—Continued			r
Sugar goods production (in factories):	Scnillings		m
Managers of divisions	71. 28	\$10.03	lin.
Pastry cooks, over 24 years	60. 96 57. 12	8. 58 8. 04	
Helpers, male—		0, 04	
Over 20 years	50. 40	7.09	
Under 20 years. Helpers, female, under 18 years.	41. 76 25, 44	5. 8 3. 5	
	20.11	0. 35	
Metal industry (factories)			ı
Strong current industry: Assistant fitters and skilled workers, male, after two years, over 22 years.	56, 16	7.90	
Assistants of fitters and skilled helpers, over 24 years	50. 40	7.90	
Unskilled helpers, male, over 22 years	45. 10	6.35	
Workers, female, over 22 years Weak current industry:	28, 80	4.05	S
Skilled workers, male, after 3 years.	40, 80	5. 74	
Skilled helpers, over 24 years	40. 80	5.74	ı
Unskilled helpers, over 24 years	35. 52	5.00	
Workers, female, over 20 years	20. 64	2.90	ı
Skilled workers, after 3 years.	57. 60	8, 10	ı
Skilled helpers, over 24 years	47. 52	6.69	
Unskilled helpers, over 24 years Workers, female, over 20 years	42. 24 26. 40	5. 94 3. 71	
Electric bulb industry:		0. 11	
Skilled workers, after 3 years	56. 10	7.89	
Skilled helpers, over 24 years	50. 40 45. 12	7.09	
Workers, female, over 20 years	28, 80	6. 35 4. 05	
Cable factories:			п
Skilled workers, after 3 years Skilled helpers, over 24 years	56, 16 50, 40	7.90 7.09	
Unskilled helpers, over 22 years	45, 12	6. 35	
Workers, female, over 20 years	28, 80	4. 05	
ocomotive factories: Skilled workers, after 3 years	52, 80	7. 43	ı
Skilled helpers, over 24 years	47. 52	6, 69	
Unskilled helpers, over 24 years	42. 24	5. 94	
Workers, female, over 20 years	26. 40	3. 71	1
Hand molders, after 3 years	57. 60	8. 10	
Other skilled workers, after 3 years	52, 80	7.43	3
Semiskilled workers, over 20 years	52, 80	7. 43	
Foundry helpers, after 3 years Other helpers, over 24 years	48, 00 42, 24	6. 75 5. 94	
Workers, female, over 18 years.	28. 80	4. 05	
ron construction:	VO 10	= 00	
Fitters and skilled workers, after 3 years Assistants of fitters and skilled helpers, over 24 years	56. 16 50. 40	7. 90 7. 00	
Unskilled helpers, over 24 years	45 19	6. 35	
Workers, female, over 20 years	28. 80	4. 05	5
China-silver industry: Skilled workers, after 3 years	57, 60	8, 10	0
Skilled helpers, over 24 years		7. 09	
Unskilled helpers, over 24 years	45. 12	6. 3	
Workers, female, over 20 years	28, 80	4.0	5
Skilled workers, after 3 years	56, 16	7.90	0
Skilled helpers, over 24 years	50.40	7.09	
Unskilled helpers, over 22 years Laborers, female, over 20 years		6. 33 4. 03	
Laborers, lemale, over 20 years	28, 80		
Skilled workers, after 3 years		7. 90	
Skilled helpers, over 24 years		7. 0	8
Unskilled helpers, over 24 years Workers, female, over 20 years	45. 12 28. 50	6. 38 4. 08	
mail concerns:	20.00	2. 00	
Mechanics-	-	0.41	,
Skilled workers, over 22 years	57. 60 31. 20	8. 10 4. 30	
Steel and metal polishers, after 3 years		10. 2	

ATION ABLE 2.—MINIMUM WEEKLY WAGES IN SPECIFIED INDUSTRIES AND OCCUPATIONS IN THE VIENNA DISTRICT, DECEMBER 31, 1930—Continued

		Minimum wee	kly wages
ed es ney	Industry, and occupation or class of worker	Austrian cur-	United States currency
	Metal industry (factories)—Continued		
), (1)	mall concerns—Continued.	G-LIIII	
59	Lathe operators— Helpers, after 3 years	Schillings 62, 40	\$8, 78
04	Helpers, over 22 years. Workers (helpers), temale, over 20 years.	45. 12 30, 72	6. 35
ı	Coppersmiths—		
	Skilled workers, after 4 years Helpers, over 20 years	62. 40 43. 20	8. 78 6. 08
	Metal pressers—		
	Helpers, after 3 years	72. 00 45. 12	10. 13 6. 35
	Helpers, over 20 years	30. 72	4. 32
	Textile industry	11111	
	Spinning mills:	an either	
	Spinners, minimum wage Spinners, average piece rate	31. 68 44. 50	4. 46
	Combers, female	22. 08	6. 26 3. 11
	Spoolers (winders, reelers), female	21. 60	3. 04
	Helpers, male	26, 88 21, 60	3. 78 3. 04
	Weaving mills:		3. 04
	Weavers, minimum wage	25. 82 34. 50	3. 63
	Weavers, average piece rate Weavers, female		4. 85 3. 34
	Spoolers, female	22. 08	3. 11
ı	Haberdashery: First haberdasher, first year	39, 36	5, 54
	Second haberdasher, second year	42. 24	5. 94
	Other haberdashers	42. 72-60. 00	6. 01-8. 44
	Second haberdashers, second year (female)	27. 36 29. 76	3. 85 4. 19
	Other haberdashers, female	30. 24-36. 00	4. 25-5. 07
l	Knitting establishments: Knitters, machine, male and female	49, 92	7. 02
	Skilled cutters, female	33. 16	4. 67
	Helpers, female, over 17 years	23. 04	3. 24
	Young workers— Between 14 and 15 years—	14, 88	2, 09
	Between 16 and 17 years	18. 24	2. 57
	Hand-printing establishments: Hand printers	62, 40	8, 78
	Skilled helpers, male—		0.10
	After 6 months Over 17 years	47. 04 43. 68	6. 62 6. 15
	Skilled helpers, female—	40.00	0. 13
	After 6 months		4. 93
	Over 17 years Young workers—	32. 16	4. 52
	Up to 15 years	19. 20	2.70
	Between 15 and 17 years  Dyeing establishments:	23. 04	3. 24
	Skilled dyers	57. 12	8, 04
	Dyers working independently	62, 40	8. 78
	Skilled helpers Helpers	50, 40 46, 08	7. 09 6. 48
ı	Skilled helpers, female	. 37. 44	5. 27
ı	Film ındustry		
	Studio workers:		
ı	Theater managers First-class electricians	<sup>2</sup> 372. 42–381. 84 80, 35–81. 88	<sup>2</sup> 52, 40-53, 72 11, 31-11, 52
	Skilled workers	76, 21-77, 65	10. 72-10. 93
	Wardrobe keepers	67. 74-69. 28	9. 53-9. 78
	Laboratory workers: Chief laboratory workers	2 355, 40	2 50, 00
	Laboratory assistants	66. 00	9. 29
	Helpers— Over 18 years		6, 86
U			

<sup>&</sup>lt;sup>2</sup> Monthly rate.

The wage statistics given in Table 2 represent minimum wage rates based on collective agreements in force on December 31, 1930, in the Vienna district; that is, Vienna and a number of towns and villages in its vicinity. Though this territory is the most important industrial district, it does not include a number of industries, such as lignite, iron ore, and magnesite mining, which are mainly in Styrian and Carinthian territory.

## Wages in Important Austrian Industrial Districts

More recent wage statistics have been made available by the Association of Austrian Industry (Hauptverband der industrie Oesterreichs), namely, for the end of September, 1931, and are shown in Table 3. These statistics include minimum wages, as given in collective agreements, for four different kinds of workers—skilled laborers, qualified helpers, unqualified helpers, and female helpers, for the Vienna district and also for industries located in the Provinces of Lower Austria, Upper Austria, Salzburg, Styria, and Carinthia.

PERS IN THE LEADING INDUSTRIAL DISTRICTS OF AUSTRIA, END OF

TABLE 3.—ACTUAL HOURLY WAGES OF WORKERS AND HELPERS IN THE LEADING INDUSTRIAL DISTRICTS OF AUSTRIA, END OF SEPTEMBER, 1981

wage 1930, and rtant ch as yrian

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[Conversions into United States currency on basis of schilling=14.07 cents]

				Actual hour	Actual hourly wages of-			
District and industry	Skilled	workers	Skilled	Skilled helpers	Unskille	Unskilled helpers	Female	Female helpers
	Austrian cur- rency	United States currency	Austrian cur- rency	United States currency	Austrian currence	United States currency	Austrian currency	United States currency
Vienna and lower Austria	Schillings 1.08-1.08	\$0.14-\$0.15	Schillings 0.93-0.96	\$0.13-\$0.14	Schillings 0.88- 0.92	\$0.12-\$0.13	Schillings 0.55-0.58	\$0.0\$
Prick industry: Time rate. Piece rate.	1.01-1.10	.14 .15	. 94- 1.50		.94-1.50	.1321	64 65.	.0807
Barrel industry	1.89 1.46		1.22-1.36		1.16			
Chemical industry Lacquer and printers' ink industry	1.10-1.13	.1516	. 94- 1.03	13- 14	-16. -18. -18.	4. 81.		80.
Oil, fat, tailow, and perfumery industry Match industry Chemical-technical industry Explosives and non-day industry.	1.06-1.08	.1314	. 91- . 97 . 81- . 91	13- 14	\$. 88. 5. 8. 88. 88.	1.1.1.1	20.05 20.05 20.05 20.05	200.00 1.00.00 1.00.00 1.00.00 1.00.00
Paper industry Paper manufactures Casther industry Poper industry	142.00-60.25	15.91-8.48 .1718	1 24. 75-49.00 1. 21- 1. 29	13.48- 6.89 .1718	122.50-39.25 1.14-1.17	13.17-5	1 16.50-36	. 12.32–5.16 . 10– . 11
Females Chocolate and candy	.50-1.28	.0918	. 76 . 63 1. 19	11.00.	. 57 65	.0809	ii	
Sugar Industry, Jower Austria. Preserved-food industry. Mills, large concerns. Bread factories. Men's hat industry:	1.26 1.26 1.26 1.71.88-82.28	17.43-8	77	. 16. 75- 7. 70 18. 62-10. 21	1.02 1.46.08-50.46 1.58.26	16. 48-7. 10 16. 48-7. 10 18. 20	. 62 127. 28-32. 12 134. 46-50. 00	13.84-4.52 14.85-7.04
try: large concerns rage wages.	:: :::	. 18 . 18 . 28 . 28	1.14-1.36	9192. 8182.	.97-1.10	41. 3141. 7161.	. 6780	.0911
Piece rate Average piece rate	1.04-1.90	-57	1. 44- 1. 70		1. 11- 1. 25	91.	96.	

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1.00 1

TABLE 3.—ACTUAL HOURLY WAGES OF WORKERS AND HELPERS IN THE LEADING INDUSTRIAL DISTRICTS OF AUSTRIA, END OF SEPTEMBER, 1931—Continued

				Actual hour	Actual hourly wages of-			
District and industry	Skilled	Skilled workers	Skilled	Skilled helpers	Unskilled	Unskilled helpers	Female	Female helpers
	Austrian currency	United States currency	Austrian cur- rency	United States currency	Austrian cur- rency	United States currency	Austrian currency	United States currency
Vienna and lower Austria-Continued								
Metal industry—Continued. Medium-sized concerns—	Schillings		Schillings		Schillings		Schillings	
A versea wages	-1.27-1.46	\$0.18-\$0.21	1.21-	\$0.17-\$0.20	0.97- 1.10	80. 14-\$0. 15	0.64-0.73	\$0.09-\$0
Piece rate A verage piece rate	1.54-1.80	22. 23.	1.41- 1.66	. 20 23	1.21-1.40	.1720	74.92	. 1013
Small concerns—	1 21- 1 43	17_ 90	1 94	77	07 1 19		9	98
Average wages	1.33		1.33					00.
A verage piece rate	1.51-1.80	.2125	1.47-1.80	.2125	1.14-1.43	.1620	.85-1.90	.1214
Time rate	1.26	.18	1.15	.16	. 95	. 133	.60	80.
St. Poelten district, large concerns—	7 90	77.	1.39	. 195	1.24	174	. 72	. 10
Time rate Piece rate St. Poelton district, medium and small con-	1.12	.16	1.02	. 178	1.00	.12	. 66	80.
Cerns— Time rate Pless rate	1.03	. 20	1.20	. 135	.71	.10	.51	. 00.
Upper Austrian District								
Mills Rubber industry	. 94- 1.08	.1315	06.	. 13	. 85	.12	.5060	.0708
A Minimum vages.	. 96- 1.03	.14	. 79 . 93	.11-	. 7683	.1112	.5356	8020.
Match industry		15	9197		1 00 1	112	. 53 55	0120.
Compart industry Refer industry	95		. 79- 1.85	.1112	77.	11.		. 05
Aluminum industry Iron mining	4 1000 100	15-18	.85-1.10	. 12 15	85- 85		1	1

Metal manufacture Furniture industry Mills Paper industry Sawmills.	. 90- 1.40 1.15- 1.42 1.15- 1.27 . 97- 1.08	13- 20 16- 20 14- 18	. 85- 1.15 1.05- 1.13 . 86 91 . 62 82	12 - 15 16 18 18 18 18 18 18 18 18 18 18 18 18 18	. 60 95 1. 03 54 74	.0813	. 53 65 . 53 55 . 53 58 42 - 48	070 - 08 00 - 09 00 - 08
Textile industry Cement industry Match industry	1.06-1.08	. 13			.6080	-80-	. 48 . 62 . 53 . 55 . 55	
Chemical industry	. 90-1-08	.1315	.85-1.05	.1215	.7590	.1113	. 58 69	.0810
Steel plants: Time rate Piece rate	1.30	.13	1.13	.10	1.03	.09	64.	56.
Styria Bread factories Mills	31.43-1.55 1.08-1.16	3. 20 22 . 15 16	31.06	31.	86.	81.8		20.
Sawmills, average Cement industry. Brick industry, average.	28. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	12-11	75- 78	9:	63-1-20	09-110-1-10-1-10-1-1-1-1-1-1-1-1-1-1-1-1	44. 52. 52. 53. 54. 56. 57. 57. 57. 57. 57. 57. 57. 57. 57. 57	85.58
Pyenidasty Paper industry Board factories, pulp mills. Match industry	. 85-190 . 97-1.08 . 1.06-1.08	4444 4444 4444		1221	\$ :8:8:5:8:	9.	25 4 52 25 25 25 25 25 25 25 25 25 25 25 25 25 2	. 07- . 07- . 08- . 07- . 08- . 08-
Leather industry Wool industry	1.02-1.12	.1416	.96- 1.06	.14 .15	7887 -7717:	.1112		
Average wage Minimum wage "Herrenschichtlohn"	2.1. 99.	138	57.50		64.	888	33.4	8.8.8
Metal industry  Leather branch Paper board and wood pulp industry Wood and saw industry Cement industry Chemical industry Magnesite industry Magnesite industry Magnesite industry	88-130 87-120 87-88 84-118 84-118 81-88	404404 44444 44444 44444 44444 44444 44444 4444	20-28-28-28-28-28-28-28-28-28-28-28-28-28-	1.0. % 1. 6.1. 6.1. 6.1. 6.1. 6.1. 6.1. 6.1	45-7-1-7-1-88-8-7-7-1-88-8-8-8-8-8-8-8-8-8	98 98 98 98 98 98 98 98 98 98 98 98 98 9	\$ 444 \$ 544 \$ 55 \$ 65 \$ 65 \$ 65 \$ 65 \$ 65 \$ 65 \$ 65	. 07 08 . 06 11 . 06 07 . 07 08 . 07 08

1 Rate per week.
2 Young workers.

<sup>3</sup> Plus 3 per cent for those who work from 4 a. m. 'Married glass blowers receive 1.36 schillings (19 cents).

According to information obtained from the Vienna Chamber of Labor, there is a considerable difference between the wages paid in Vienna and those paid in other Austrian Provinces. In order to give an idea of these differences, the information in Table 4 was obtained from the Chamber of Labor. The figures show actual wages paid in Vienna as compared with actual wages paid in Linz, the capital of upper Austria, and Graz, the capital of Styria.

TABLE 4.—ACTUAL WEEKLY WAGES IN VIENNA, LINZ, AND GRAZ
[Conversions into United States currency on basis of schilling=14.07 cents]

		. 1	Actual week	kly wages	in—	
Industry and occupation	Vie	nna	Li	nz	Gı	raz
	Austrian	United States currency	Austrian	United States currency	Austrian	United States currency
Machine industry:	Schillings		Schillings		Schillings	-
Fitters (Monteure)	56, 16	\$7, 90	52, 80	\$7, 43	38, 40	\$5.4
Lathe operators (Dreher)	62. 40	8.78	52.80	7.43	38. 40	5, 4
Hand molders (Eisengiesser, Hand-						-
former)	57. 60	8. 10	52. 80	7.43	38. 40	5. 4
Model joiners (Modellmacher)————————————————————————————————————	69. 60	9. 79	52. 80	7.43	38. 40	5.4
arbeiter)	42. 24	5. 94	40, 32	5. 67	29.76	4.
Furniture industry:						
Cabinetmakers (Tischler)	67. 20	9. 46	72.00	10. 13	65. 76	9.5
Upholsterers (Tapezierer) Electrical installation industry:	67. 20	9. 46	72.00	10. 13	65. 28	9,
Skilled fitters (Elektromonteure, gelernte)	67. 20	9. 46	60.00	8.44	48.00	6.
Foodstuffs industry:						
Bakers in small concerns (Baecker in genossenschaftlichen Betrieben)	76. 10	10.71	78.00	10. 97	70. 50	9,
Bakers, in factories (Baecker in Fa- briksbetrieben)	77. 20	10, 86			71. 50	10.

# Wages in Iron and Magnesite Mines

Table 5 was also furnished by the Vienna Chamber of Labor and shows the distribution of workers by wage classes in Styrian iron ore and magnesite mines and average actual wages paid.

Table 5.—AVERAGE WEEKLY WAGES PAID IN STYRIAN IRON AND MAGNESITE MINES, AND NUMBER OF WORKERS IN EACH CLASSIFIED

5. 40 5. 40 5. 40 4. 19 9. 25 9. 18

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[Conversions into United States currency on basis of schilling=14.07 cents]

				Num	Number of workers with weekly earnings of—	rkers wit	h weekly	y earning	—Jo s:			Averag	Average wage
Occupation	Num- ber of workers	15.00- 24.99 sch. (\$2.11- \$3.52)	25.00- 34.99 sch. (\$3.52- \$4.92)	35.00- 39.99 sch. (\$4.92- \$5.63)	40.00- 44.99 sch. (\$5.63- \$6.33)	45.00- 49.99 sch. (\$6.33- \$7.03)	50.00- 54.99 sch. (\$7.04- \$7.74)	55.00- 59.99 sch. (\$7.74- \$8.44)	60.00- 64.99 sch. (\$8.44- \$9.14)	65.00- 69.99 sch. (\$9.15- \$9.85)	70.00- 90.00 sch. (\$9.85- \$12.66) and over	Aus- trian cur- rency	United States cur- rency
Pickmen (Hauer)	775		-	100		48	48	149	173	178	174	Schil- lings 64.00	\$9.00
Fushers (Foorderer) Skilled workers (Professionisten) Machine attendants (Maschinisten and Waerter) Helpers (Hilfsarbeiter) Women (France)	217 217 76	8		610	115 118 97	91168	3828	3822	52.48	*000	1004	44.52.52 88888	6.7.7.8 4.74.9 10.8
Juveniles (Jugendliche)	22	":		8	2	1						30.00	4. 22
Total	1,692	13	136	81	162	233	221	242	220	196	188	54.00	7.60
Pickmen (Hauer): Piece rate. Pushers (Foerderer):	67		1	1		1 2	9	21	14	9	19	66.00	9.29
Piecerate Timerate	70		2	15	0 ×	22	15	4° co	16			45.00	6.33
Skilled workers (Professionisten): Piecerate	47				1	64-	6	94	14	10	10	61.00	8.58
Foremen (Vorarbeiter): Piece rate. Furnace tenders (Heizer): Piece rate.	10		0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1			1010	100	-	63	26.00	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Furnace assistants (Hilfsheizer): Fiece rate.	47.0				-	- 0	מ	1	2	-		62.00	. 00.00
Pressers (Presser): Piece rate Machine attendants (Maschinisten): Time rate Sorters (Sortierer): Piece rate.	18 x x			1	. 61	- 63	81 H 44	16	100			55.98 56.98 56.98	8.8.7. 7.74
Firemen (Heizer): Time rate Piece rate	18	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	10	7	87	17.5	16	10			43.00 55.00	6.05
Qualified helpers (Qualifizierter Hilfsarbeiter): Tilme rate Piece rate	18			-	9	C4 00	10.00		-	81	-	50.00	2.5

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TABLE 5.—AVERAGE WEEKLY WAGES PAID IN STYRIAN IRON AND MAGNESITE MINES, AND NUMBER OF WORKERS IN EACH CLASSIFIED EARNINGS GROUP—Continued

				Numb	Number of workers with weekly earnings of—	kers wit	h weekly	earning	-Jo s			Averag	Average wage
Occupation	Num- ber of workers	15.00- 24.99 sch. (\$2.11- \$3.52)	25.00- 34.99 sch. (\$3.52- \$4.92)	35.00- 39.99 sch. \$5.63)	40.00- 44.99 sch. (\$5.63-	45.00- 49.99 sch. (\$6.33- \$7.03)	50.00- 54.99 sch. (\$7.04- \$7.74)	55.00- 59.99 sch. (\$7.74- \$8.44)	60.00- 64.99 8ch. (\$8.44- \$9.14)	65.00- 69.99 8ch. (\$9.15- \$9.85)	70.00- 90.00 sch. (\$9.85- \$12.66) and over	Aus- trian cur- rency	United States cur- rency
Workers at aerial railways (Bahner): Time rate	22.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	000	10	6	64		1 1 1 1 1 1		1 1 2 4 4 6	Schil- lings 44.00	\$6.19
Loaders (Lader): Time rate	42			9 9	322	4						42.00	5.91
Time rate.  Piece rate.	899	1	22 3	17	19	10	12	4	1			38.00 46.00	5.35
women (Frauen): Timerate Piecerate	36	30	98									88.88	3.10
Juvenies (Jugendliche): Time rate. Piece rate.	96	9	-		4 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6 C C C C C C C C C C C C C C C C C C C	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L	6 E E E E E E E E E E E E E E E E E E E	6 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	19.00	2.67
All workers: Time rate Piece rate	298	37	30	10	34	53	28.88	8	818	es 88	1 26	40.00	5.63
Total	692	38	9	58	118	112	123	118	84	31	27	49.00	6.89

## Wages of Farm Laborers

On May 1, 1931, Dr. Felix Klezl, a well-known economist, specializing in wage and other social statistics, published an article on the present and pre-war standard of living of the Austrian population. He comes to the conclusion that the present wages of agricultural laborers exceed the pre-war rates by about 84 per cent on the average. The present actual wage of a male farm laborer amounts to 50 schillings (\$7.04) per month, as compared with about 25 schillings (\$3.52) before the war, an increase of 100 per cent. The cash wage for female farm laborers increased in about the same proportion, from about 20 schillings (\$2.81) per month before the war to about 40 schillings (\$5.63) at present. However, it must be considered that in case of farm laborers the cash wage is not so important, while payments in kind are a very important factor. These payments have increased to a certain extent, but, of course, not in the same proportion as cash wages. Cash wages of laborers working on large farms (Gutsarbeiter) have increased from about 58 schillings (\$8.16) in 1914 to about 80 schillings (\$11.26) in 1931, an increase of almost 38 per cent.

By far the most accentuated increases occurred in cash wages paid to day laborers on farms (landwirtschaftliche Tagloehner). The daily cash wage of such laborers when receiving no additional payments in kind, at present amounts to about 4.50 schillings (\$0.63) as

compared with 2 schillings (\$0.28) before the war

# General Survey of Wages in Greece, 1931 1

WAGE rates in the manufacturing, mining, and agricultural industries in Greece given in the following tables are based in general on reports of the Hellenic Ministry of National Economy and, for the Saloniki district, upon reports of an inspector of labor, and in

Patras by the local labor bureau.

There is no tax assessment upon wages in Greece. There is a compulsory insurance system,<sup>2</sup> however, which covers wage earners and salaried employees, although it has not yet been extended to all workers. The contributions which are divided equally between employer and employees may not be less than 3 nor more than 6 per cent of the wages or salaries of the insured. The insurance covers the risks of sickness, disability, old age, and death and includes certain benefits to families of insured workers.

The industries in the Athens consular district include a number of manufacturing industries, mining, and agriculture, while in the Saloniki district, comprising Greek Macedonia and Thrace, agriculture is the primary industry, with tobacco as the principal crop.

States and in foreign countries.

This report was prepared by Edwin A. Plitt, American consul, Athens; C. Franklin Yeager, American vice consul, Patras; and Charles J. Pisar, American consul, Saloniki.
 See Bureau of Labor Statistics Bul. No. 561: Public old-age pensions and insurance in the United

The following table shows the average daily or monthly wages of workers in various industries in Greece in 1931:

T

TABLE 1.—AVERAGE WAGES PER DAY OR PER MONTH OF WORKERS IN SPECIFIED INDUSTRIES IN GREECE, 1931

[Conversions into United States currency on basis of drachma=1.3 cents]

		Average	wages			Average w	ages
Industry and occupation		Am	nount	Industry and occupation		Am	ount
	Period	Greek currency	United States currency		Period	Greek cur- rency	United States currency
Building materials				Foodstuffs—Contd.			
Brick factories: Foremen Brickmakers Workmen Assistants Lime factories:	Day¹_ Day¹_ Day¹_ Day¹_	Drachmas 80 80 60- 80 40- 50	\$1.04 1.04 .78-1.04 .5265	Flour mills: Millers Assistant millers Workmen Mixers Macaroni mills:	Dayl. Dayl. Dayl. Dayl.		\$1.3 .971 1.14- 1.231 1.3
Engineers Foremen Chief workmen Workmen Assistants	Mo Mo Day <sup>1</sup> Day <sup>1</sup> .	3, 200 3, 200 3, 000 40- 50 30- 35	41. 60 41. 60 39. 00 .5265 .3945½	Superintendents Workmen Assistants Women	Day <sup>2</sup> . Day <sup>2</sup> . Day <sup>2</sup> . Day <sup>3</sup> .	80- 100 60- 80 60- 70 30- 40	1.04-1.3 .78-1.0 .789 .395
Chemicals	A STATE			Leather			
Rosin factories: Foremen Firemen Workmen Pharmaceutical products fac-	Mo Mo Day <sup>1</sup> .	2, 400 1, 800 50- 60	31. 20 23. 40 .6578	Leather goods factories: Foremen	Mo Day¹_ Day¹_ Day¹_	4,000 50- 100 25- 40 20- 50	52.0 .65-1.3 .32½5 .266
tories: Chemists Foremen Workmen	Mo Mo Dayi-	5, 000 5, 000 20- 34	65. 00 65. 00 .2644	CuttersShoemakers Tanneries: Chemists Engineers	Dayl. Dayl. Mo	3,000 4,000	1.30-4.2 .39-1.3
Clothing Tailors: Workmen Assistants	Day <sup>3</sup> Day <sup>2</sup>	60- 100 40- 50	.78- 1.30 .5265	Foremen	Mo Day¹_	3, 500 50- 100	.65- 1.3
Apprentices  Hat factories: Engineers Oilers Firemen Workmen Assistants	Mo Mo Mo Day <sup>2</sup> Day <sup>2</sup> .	15- 30 4,000-4,500 2,300 2,100 60- 90 25- 50	19½ . 39 52.00-58.50 29.90 27.30 .78-1.17 .32½ . 65	Bed factories: Bedmakers Nickelers Workmen Assistants Foundries:	Dayl Dayl Dayl Dayl	85- 150 70- 110 40- 75 20- 40	1. 10½-1.9 . 91- 1.4 . 52 97 . 20
Knit goods factories: Knitters Seamstresses Assistants Underwear factor	Day <sup>2</sup> . Day <sup>2</sup> . Day <sup>2</sup> .	30- 40 30- 40 18- 20	.3952 .3952 .2326	ForemenFounderersWorkmenAssistants	Dayl Dayl Dayl Dayl Dayl	80- 90 80- 100 50- 70	1. 04- 1. 1 1. 04- 1. 3 .656
ries: Superintendents Embroiderers Assistants Foodstuffs	Day <sup>2</sup> . Day <sup>2</sup> . Day <sup>2</sup> .	30- 45 30- 45 15- 30	. 39 58½ . 39 58½ 19½ 39	Cardboard-box factories: Foremen Workmen	Mo Day¹. Day¹.	1, 800-2, 500 40- 50 30- 40	23. 40-32. 5 . 52 6 . 39 5
Bakeries: Bakers Dough makers Assistants Chocolate and candy facto-	Days. Days. Days.	80- 100 60- 100 30- 50	1.04- 1.30 .78- 1.30 .3965	Wood Furniture factories: Foremen	Dayi.	100- 150	1.30-1.9
ries: Confectioners Engineers Workmen Women	Mo Mo Day <sup>1</sup> Day <sup>1</sup> .	2, 500 3, 000 60- 100 20- 25	32.50 39.00 .78-1.30 .2632½	Upholsterers Furniture mak- ers Polishers Assistants	Day <sup>1</sup> . Day <sup>1</sup> . Day <sup>1</sup> . Day <sup>1</sup> .	60- 150 60- 150 55- 130 20- 40	.78- 1.9 .78- 1.9 .71½- 1.6 .265

8 hours.
 8 hours on Saturday, 10 hours on other days.
 Number of hours not reported.

TABLE 1.—AVERAGE WAGES PER DAY OR PER MONTH OF WORKERS IN SPECIFIED INDUSTRIES IN GREECE, 1931—Continued

		Average	wages			Average	wages
Industry and occupation		Aı	nount	Industry and occupation		AI	nount
	Period	Greek cur- rency	United States currency		Period	Greek cur rency	United States currency
Textiles	-			Textiles-Contd.			
Artificial-silk fac-		-		Wool-spinning			
tories:	Ma	Drachmas	Ang on on on	mills:	1	Drachmas	
Chemists Engineers	Mo Day2_	2, 100-3, 000 120		Engineers	Day2.	150	\$1.98
Workmen	Day2	65- 100	. 84½- 1. 30	Oilers and fire-	D		
Women	Days_	25- 40	.321/252	menSpinners			
Silk factories:			1	Laborers			
Engineers	Mo	4, 500	58. 50	Packers	Dav2		78 - 1.04
Oilers	Day2_	55	.711/2	Assistants	Day2	25- 60	
Cotton-spinning mills:				Flannel factories:			
Engineers	Day2_	150	1.95	Weavers Seamstresses	Mo		
Superintendents	Day2	200- 400	2.60 - 5.20	Packers	Day2.		
Oilers	Day2	75- 90	.971/2- 1.17	1 4040101111111	Day-	40- 50	. 52 65
Firemen	Day2	100	1.30	Miscellaneous			
Workmen	Days_ Days_	65- 80 25- 40	.8412- 1.04				
Packers	Day2	25- 40 60- 80	$32\frac{1}{2}$ . 52 . 78 - 1.04	Automobile-body			
Cotton-weaving		00 00	1.04	builders: Engineers	Day1_	80- 110	1 04 1 40
mills:				Superintendents	Day	80- 110 100- 150	1. 04- 1. 43 1. 30- 1. 95
Engineers	Mo	3, 000-5, 000	39.00-65.00	Foremen	Day1	50- 120	.65- 1.56
Firemen and oil-	Davis	150		Upholsterers	Day1_	30- 120	.39- 1.56
women	Day <sup>2</sup> . Day <sup>2</sup> .	30- 35	1.95	Painters	Day1_	50- 90	. 65- 1. 17
Finishers	Mo	2, 000-4, 000	26. 00-52. 00	Workmen	Day1	50- 80	. 65- 1. 04
Dyers	M0	3,000-5,000	39. 00-65. 00	Bookbinding:	Day1_	20- 50	. 26 65
Folders	Day2	50- 60	.6578	Foremen	Day1_	90- 100	1. 17- 1. 30
Repairers	Day2	35- 55	. 451/2 711/2	Bookbinders		45- 90	. 581/2- 1. 17
Weavers	Day <sup>2</sup> .	35- 55 50- 60	. 451/2 711/2	Assistants	Day1_	15- 25	. 58½- 1. 17 . 19½ 32½
Hosiery factories:			.6578	Household uten- sils:			11000
Engineers	Mo	3, 000-4, 000	39. 00-52. 00	Superintendents	Day1	100- 120	1.30- 1.56
Ironers	Day2_	30- 35	. 39 451/2	Workmen	Day1	55- 85	.711/2
Seamstresses Knitters	Day <sup>2</sup> .	30- 50 35- 50	.3965	4 4	-		1. 101/2
Packers	Day	30- 35	.451/2 .65	Assistants Stone and marble	Day1_	20- 25	. 26 321/2
Workmen	Day2	60	.78	sawing mills:			1
Rug factories:	1		A large life	Engineers	Mo	2,700	35. 10
Dyers	Mo	4, 000-6, 000	52.00-78.00	Sawers	Dayi	90- 100	1. 17- 1. 30
DesignersAssistant dyers	Mo S	2,000-4,000	39. 00-78. 00	Workmen	Day1_	40- 60	. 52 78
Copy makers	Mo 1	1, 000-1, 500	26. 00-52. 00 13. 00-19. 50	Umbrella facto- ries:			1115
Washers	Day2.	40- 60	. 52 78	Cutters	Mo	2, 500-3, 500	32. 50-45. 50
weaving factories:				Workmen	Day2	35- 80	. 451/2- 1. 04
Engineers	Mo	4, 500	58. 50	Women	Day2_	25- 50	.321/265
Oilers.	Day <sup>2</sup> .	50 50	. 65	Mining:			
Foremen	Day	55- 65	.711/2841/2	Superintendents Foremen	Day1	55- 150	.711/2- 1.95
Dyers	Mo	4, 500	58. 50	Miners	Dayi.	65- 70 45- 55	.841/291
Ironers	Day2	55- 65	.711/2 841/2	Assistant miners	Day-	40- 00	. 581/2 711/2
FinishersFolders	Day2_	45	. 581/2	and transport-		115	San Sansan
Repairers	Day2	25- 30	.3212 .39	ers	Day1_	35- 45	. 451/2 . 581/2
Vool-weaving	Day2_	25- 30	.321/239	Porters(women)	Day1	20- 28	. 26 36
mills:		dille un		Machinists Tobacco:	Day1_	120	1. 56
Weavers.	Mo 3	,000-4,000	39. 00-52. 00	Mixers	Dayi_	22- 85	. 281/2-1. 101/2
weavers (wom-				Cutters	Day1	45	. 581/2
en) Dyers	Day <sup>2</sup>	30- 45	39 581/2	Cigarette mak-	.		
Laborers	Day2	40- 45	32. 50-52. 00 . 52 58½	ers Manipulators	Day1	30- 110	.39- 1.43
	Day2	30- 35	.39451/2	Women	Day1_ Day1_	22- 68 22- 45	$.28\frac{1}{2}$ $.88$ $.28\frac{1}{2}$ $.58\frac{1}{2}$

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<sup>&</sup>lt;sup>18</sup> hours on Saturday, 10 hours on other days.

There is a social and retirement insurance system for employees of flour mills. The funds for this purpose are obtained by assessment of 1 lepton 3 on each oke 4 of wheat milled, and by a contribution of 2

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per cent of wages by both the employees and the millers.

As for the tobacco workers, there is an organization which on October 29, 1927, by legal decree was named Treasury of Insurance of Tobacco Workers (Tamion Asfaliseos Kapnergaton) whose purpose is the provision of insurance for members of the organization and their families covering medical and hospital assistance and drugs; disability, maternity, and death benefits; pensions; and unemployment benefits. The plan is financed by compulsory contributions of 4 per cent of wages by the tobacco workers and by the tobacco merchants, and by a Government contribution.

#### Macedonia and Thrace

Spinning and weaving mills.—The spinning and weaving industry is probably the most important manufacturing industry in the Province of Macedonia. Yarns and cotton, woolen and silk piece goods are produced.

The working hours per week are 58—10 hours a day the first five days, and 8 hours on Saturday. The hours observed are from 7.30

a. m. to noon, and from 1 to 6.30 p. m.

Overtime is paid for at the rate of three-quarters of a day's pay for every two hours worked.

The wages paid are as follows:

Spinning:	Per day
Men	30 to 45 drachmas (39 to 59 cents).
Women	17 to 30 drachmas (22 to 39 cents).
Dyers	70 drachmas (91 cents).
Weaving:	
Expert weavers, male	70 drachmas (91 cents).
Women	17 to 30 drachmas (22 to 39 cents).
Mechanics	80 drachmas (104 cents).

There is a limited amount of piece work in the weaving mills. For weaving drill cloth, 50 meters in length and 60 to 75 centimeters in width, the rate is 35 drachmas (46 cents). For weaving drill cloth, 50 meters in length and 1.40 meters in width, the rate is 75 drachmas (98 cents).

In the cities of Vodena, Naoussa, and Verria, the wages paid to women are from 2 to 5 drachmas less per day than in Saloniki.

The mill owners are not obliged under present laws to provide their employees with insurance, pensions, housing, gardens, etc., and do not do so voluntarily. No payment is made for holidays.

A stamp tax of 1 drachma on each 100 drachmas is payable on all

receipts for wages. This is paid by the employers.

Mining industry.—The mining industry in the Provinces of Greek Macedonia and Thrace consists of 10 lignite mines, 5 magnesite mines, 1 iron pyrite mine, 1 zinc mine, and 1 steatite mine. A number of these mines are now closed down on account of the economic depression.

Most of the mines are open pits, and there is little underground work.

<sup>3 100</sup> leptons=1 drachma.

<sup>4</sup> Oke=1.35 quarts.

8 According to length of service,

The following information is taken from a report of the Mining Inspection Bureau, dated February, 1930. More recent data is not available.

 Underground workers:
 Per day

 Head men, first class.
 56 drachmas (73 cents).

 Head men, second class.
 54 drachmas (70 cents).

 Shorers, first class.
 53 drachmas (69 cents).

 Miners, second class.
 49 drachmas (64 cents).

 Miners' helpers, first class.
 47 drachmas (61 cents).

 Miners' helpers, second class.
 39 drachmas (53 cents).

 Surface workers:
 39 drachmas (51 cents).

 Common labor.
 45 to 50 drachmas (59 to 65 cents).

 Specialists.
 50 to 80 drachmas (65 to 104 cents).

The working time is eight hours per day, six days a week.

The overtime is calculated at the same rate per hour as the day

rate, plus 5 per cent.

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In order to attract laborers, the mine operators provide free housing and restaurants where food may be obtained at a very low cost. Frequently operators give their workers an extra day's wage per

week as a bonus but this is not obligatory.

Macaroni mills.—In the paste food or macaroni mills, the minimum age limit for boys and women is 14 years. Boys between 14 and 18 years of age, and women, are permitted to work 58 hours a week, i. e., 10 hours a day for 5 days, and 8 hours on Saturdays. Men over 18 years of age may work for longer periods but must have a minimum of 9 hours' rest at night, and 2 hours' rest at noon during the summer months, and 1½ hours during the winter months. The women are primarily employed in packing.

Wages paid to men range from 40 to 100 drachmas (52 cents to \$1.30) a day according to age and kind of work. Women receive

from 20 to 35 drachmas (26 to 46 cents) a day.

There are no taxes on wages. No provision is made for social or

other insurance, and no housing is provided.

Carpet-weaving industry.—The legal working week in the carpet-weaving industry is 6 days; 5 days of 10 hours, and 8 hours on Saturday, making a total of 58 hours per week. This schedule, however, is not strictly enforced since all the work is on a piecework basis and many of the workers have looms in their own homes and work at all hours. All the weavers are women and girls, and there is no minimum age limit for the latter. Often very old women and very young girls are employed.

The standard rate of pay is 2.80 drachmas (3.6 cents) per 1,000 knots. The earnings of the most skilled weavers do not exceed 40 drachmas (52 cents) a day, although the average daily earnings are

considerably below this figure.

There are no supplementary payments. No wage taxes are levied on the weavers.

There is no social insurance.

Soap industry.—In the soap manufacturing industry a minimum working day is not enforced, on account of the nature of the work. Laborers work 10 to 12 hours a day, 6 days a week.

Daily wages range from 60 to 80 drachmas (78 cents to \$1.04).

No wage taxes are levied.

There is no social insurance.

Flour mills.—Work in the large flour mills consists of three shifts a day, each shift consisting of eight hours. Six days constitute a working week.

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Wages range from 55 to 90 drachmas (72 cents to \$1.17) a day.

Clothing industry.—In the clothing industry the minimum age limit is 14 years. Boys 14 to 18 years of age, and woman workers, are permitted to work 58 hours a week; 10 hours a day for 5 days and 8 hours on Saturday. Males over 18 years of age may work for longer periods but must have a minimum of 9 hours' rest at night, and 2 hours' rest at noon during the summer months, and 1½ hours' rest in the winter months.

The majority of the workers in the clothing industry are pieceworkers who take work to their homes and considerable difficulty is

encountered in enforcing these regulations.

Clothing workers are paid by the garment, and it is difficult to ascertain their earnings, since the rates vary with the different types of work, amount of work available, etc. It is said they average between 40 to 50 drachmas (52 and 65 cents) a day for men, and 20 to 40 drachmas (26 to 52 cents) a day for women.

No provision is made for social or other insurance.

Agriculture.—Agriculture in Macedonia and Thrace is confined to small individual farms, the average size of which does not exceed seven and one-half acres. The methods employed are still exceedingly primitive, and in the case of cereal and other food crops the output hardly suffices to meet the requirements of the farmers themselves. Flour and wheat constitute one of the most important items of import into Greece. The farms being small, however, each farmer is capable of looking after his own crops although very often they assist each other at harvest time. Recourse to outside help is seldom necessary. In prosperous periods when good prices are obtained, the tobacco growers frequently employ outside help to assist them in the picking and manipulation of the tobacco. However, not more than 10 per cent of the farmers resort to outside help at the present time.

Labor for picking is paid at 40 to 50 drachmas (52 to 65 cents) and for manipulating, 15 to 25 drachmas (20 to 33 cents), a day, including

food and shelter.

The manipulation of leaf tobacco, the bulk of which is exported, is a seasonal industry. All the manipulation is done by hand and no machinery is used except hand presses for baling. The manipulation usually commences in the end of January and continues until September or October. In the Provinces of Greek Macedonia and Thrace 25,117 men and 15,875 women are employed each year in this industry.

Handlers (stivadori) and sorters (denkdjis) receive in the summer period 85 to 105 drachmas (\$1.11 to \$1.37) a day and woman packers

(pastaldjis) 35 to 40 drachmas (46 to 52 cents) a day.

During the winter period, the laborers receive seven-eighths of the

above rates.

Hours.—Eight hours constitute a day in the summer period and seven hours in the winter months. Six days constitute a week, making a total of 48 hours in the summer and 42 hours in the winter. No work is permitted on Sundays except in the case of the handlers who are allowed to work on Sundays during the period of fermentation of the tobacco under special permission from the Labor Inspection Bureau.

Male workers under 14 years and women under 16 years may not

be employed.

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In the summer time tobacco workers are permitted to work two hours overtime. The overtime rate of pay is figured on the basis of the regular wage plus 25 per cent. For instance a woman worker who receives 40 drachmas (52 cents) a day, receives 5 drachmas an hour overtime plus 25 per cent, or 6¼ drachmas for each hour of overtime. For a 10-hour day she receives 52½ drachmas (68 cents). Because of the lack of sunlight, there is no overtime work in the winter months.

No supplementary payments in kind, paid holidays, free housing,

or land for gardens, are made to the tobacco workers.

There are no wage taxes.

These workers are insured under the system described on page 681.

#### Patras

According to official figures furnished by the local Bureau of Labor of the Ministry of National Economy the total number of workers in industries and occupations at Patras, is from 5,000 to 5,500 divided as follows:

Male workers in industries	
Woman workers in industries	2,000
Male workers, nonunion	
Woman workers, nonunion	500

About one-half of these workers belong to unions or brotherhoods. There are not more than 50 communist workmen in Patras.

There is no permanent unemployment in Patras, as nearly all the laborers without steady employment earn one or more days' wages each week.

The following table shows the principal classes of workers by industry and occupation with the wage rates per day and full-time hours of labor:

Table 2.—DAILY WAGES AND HOURS OF WORK IN SPECIFIED OCCUPATIONS IN PATRAS, GREECE, NOVEMBER, 1931

[Conversions into United States currency on basis of drachma=1.3 cents]

	Hours	Wages per day			
Sex and occupation	per day	Greek currency	United States currency		
Males:		Drachmas			
Currant packers.	9	125-135	\$1. 63-\$1. 76		
Spinners	10	50- 80	. 65- 1. 04		
Distillery workers	8	60- 75	. 78 98		
Carpenters, factories	9 8	80-110	1.04- 1.43		
	8	45- 65	. 59 85		
Tanners Flour-mill workers	8	50- 75	. 65 98		
Macaronifactory workers.	9	60- 80	. 78- 1. 04		
Bakery workers	9	60- 70	. 78 91		
Tobacco workers	8	75-100	. 98- 1. 30		
rurmture workers	8	80-100	1.04-1.30		
Printers.	8	80-100	1.04- 1.30		
Stevedores		150	1. 95		
Carpenters, masons, and similar workers	8	90-125	1. 17- 1. 63		
Teamsters	8	125-150	1.63- 1.95		
remaies:					
Skilled laborers, factories	8-10	40- 50	. 52 65		
Apprentices	8-10	20- 30	. 26 39		
Nonunion laborers	8-10	30- 40	. 39 52		
Children, aged—					
14-16 years	8-10	20- 35	. 26 46		
16-18 years	8-10	25- 45	. 33 59		

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Tailors and shoemakers are paid by the piece, the former being paid at the rate of 300 drachmas (\$3.90) per suit and 200 drachmas (\$2.60) per overcoat. Shoemakers are paid from 60 to 80 drachmas (\$0.78 to \$1.04) for each pair of shoes for adults and from 35 to 50 drachmas (46 to 65 cents) for each pair of children's shoes.

Twenty-five per cent extra is generally paid for all overtime work.

Double time is paid for work on holidays.

No supplementary payments are made for family allowance. No payments in kind are made, and free housing and garden is given in a few instances only.

Deductions from the above wages are made in the form of a special tax only from the laborers who receive a daily wage rate of 60 drach-

mas (78 cents) or over.

Social insurance has not yet been extended to all classes of laborers. Only a few classes of workers pay from 2 to 6 per cent of their daily wages as social insurance.

# General Survey of Wages in Switzerland, 1930 and 1931

WHILE manufacturing has come to be of great economic importance in Switzerland, agriculture and its branches occupy more than a third of the Swiss wage earners. The strictly local industries, such as building, printing, transportation and the hotel and restaurant trade account for a great many more, but strictly factory workers may be reckoned to number another third of the working population.

Some of the industrial groups which are important in the United States are not represented in Switzerland, as for instance coal mining and oil production; in fact, mineral mining in general is unimportant. Logging and lumbering accounts for the employment of considerable numbers of mountain peasants during winter months, but hardly

exists as a year-round industry.

The most important branches of manufacture are textiles, followed by machine building, clock and watch manufacture, metal working, and the preparation of foodstuffs. Of these groups, the textile and clock and watch industries have been undergoing such a difficult period during the past few years that their relative position in Swiss industry is less important to-day than before the war. The machine-building trade, however, has been fairly successful right up to the present time, as has the food industry, among which latter the cheese, chocolate, and condensed milk branches lead.

Number of persons employed.—Following is a short table showing the number of factory workers in Switzerland according to industry,

in 1901, 1911, and 1930.

Payments supplementary to wages.—There are, as a rule, no supplementary payments in industry, such as family allowances, payments in kind, or free housing or land for gardens. In some cases dwelling accommodations are provided by factory owners, but a fair rent is always charged for them. In the rural districts some instances exist of free garden land being granted to employees if the factory has available terrain which could not be more profitably used otherwise, but these cases are infrequent.

<sup>&</sup>lt;sup>1</sup> This report was prepared by Gibson G. Blake, American consul, Geneva; Hugh F. Ramsay, American vice consul, Zurich; J. Tuck Sherman, American vice consul, Berne; Albert W. Scott, American vice consul, Basel; and Frederick W. Baldwin, American consul, Lausanne.

TABLE 1.—NUMBER OF FACTORY WORKERS IN SPECIFIED INDUSTRIES IN SWITZER-LAND, 1901, 1911, AND 1930

Industry	Number of factory workers in specified industries in—					
	1901	1911	1930			
Cotton textiles Silk and artificial silk Woolen textiles Linen textiles Embroideries Other textile branches Clothing and objects of equipment Food products Chemical industry Municipal services Paper, leather, and rubber. Woodworking Printing and binding Production and working of metals Machine and instrument building Clocks and watches Earthenware and stoneworking	32, 297 33, 908 4, 166 1, 043 16, 751 3, 153 14, 671 18, 332 4, 196 2, 156 7, 316 14, 381 7, 469 13, 043 32, 626 24, 858 12, 168	29, 550 32, 024 5, 325 1, 007 28, 606 4, 509 23, 443 26, 044 7, 394 4, 228 9, 262 23, 765 10, 042 23, 325 47, 630 34, 983 17, 704	32, 567 28, 533 7, 953 1, 944 6, 431 7, 556 41, 013 26, 564 11, 862 4, 244 13, 981 25, 421 14, 288 35, 468 76, 803 41, 748			

Paid vacations and certain holidays are the rule for all workers who work on a weekly or monthly basis, and in a few instances certain more or less local half holidays are granted with pay to workers on a daily wage basis.

In most of the collective agreements regarding wages, the granting of paid vacations and paid holidays are considered, and definite

arrangements made for either granting or refusing them.

The period of compulsory military service is 9½ weeks for infantry in the first year of service, about 14 weeks for cavalry and artillery in the first year, and 2 weeks a year for the following 8 years for all arms, and short periods in the 7 succeeding years. There is no law obliging employers to pay wages for these periods or even to give employment to men who leave their service for military service. However, many of the collective wage agreements cover these questions.

There are unemployment and sick benefit insurance funds in operation in practically all of the Cantons of Switzerland. Most of these enjoy Federal subsidy, all of them cantonal subsidy, and all of them require contributions from the insured workers. These contributions in the case of unemployment insurance are not large but vary in each

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Collective agreements.—The majority of the collective agreements relate to the payment of wages or salaries, a smaller number taking up such questions as hours of labor, paid holidays and vacations, overtime and the prohibition of piecework. Most of the labor agreements which deal with the wage question set up a minimum wage, but it must be realized that in a small, highly developed country such as Switzerland, minimum wage agreements are relatively unimportant to skilled workers, who in normal times are able to demand, and to receive, more than the minimum rates. Piece rates are not common and are most often encountered in the clock and watch industry, although the tendency is away from this system. The actual piece rates in this industry are not published, and are the subject of special agreement in nearly every factory.

## Average Wages in Specified Industries

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The table which follows shows the average wages per day and per hour, as computed by insurance funds against accidents, of workmen injured in industrial accidents:

TABLE 2.—AVERAGE DAILY AND HOURLY EARNINGS OF WORKERS INJURED IN INDUSTRIAL ACCIDENTS IN SWITZERLAND IN 1930

#### Earnings per day

[Conversions into United States currency on basis of franc=19.3 cents]

			M	en			Wor	men,	Young per-		
Industry	Fore	Foremen Skilled and semiskilled Unskilled		illed	aged 18 and more		sons under 18 years of age				
	Swiss cur- rency	U.S. cur- rency	Swiss cur- rency	U.S. cur- rency	Swiss cur- rency	U.S. cur- rency	Swiss cur- rency	U.S. cur- rency	Swiss cur- rency	U.S. cur- rency	
Metal and machine Building Wood Textiles Watch and clock Stone and earth Shoe Paper Printing Chemical Food, drink, and tobacco	15. 93 15. 65 14. 69 15. 64 16. 90 18. 10	\$3. 31 3. 07 3. 02 2. 84 3. 02	13. 23 11. 81 10. 52 12. 14 12. 40 10. 97 11. 70 15. 88 12. 40 13. 99	\$2. 34 2. 55 2. 28 2. 03 2. 34 2. 39 2. 12 2. 26 3. 06 2. 39 2. 70	Francs 9. 55 10. 28 8. 89 9. 22 8. 47 9. 42 9. 13 8. 89 9. 59 10. 33 11. 54	\$1. 84 1. 98 1. 72 1. 78 1. 63 1. 82 1. 76 1. 72 1. 85 1. 99 2. 23	Francs 6. 46 5. 98 6. 44 7. 01 5. 26 6. 99 5. 81 6. 51 6. 05 5. 67	\$1. 25 1. 15 1. 24 1. 35 1. 02 1. 35 1. 12 1. 26 1. 17 1. 09	Francs 4, 90 7, 86 5, 19 4, 50 4, 97 5, 39 4, 70 4, 11 4, 09 5, 09 4, 68	\$0. 98 1. 55 1. 00 . 87 . 96 1. 04 . 91 . 79 . 79 . 96 . 90	
Transportation Electric light and power Warehousing and commerce Gas and water works Mines and quarries Forestry	18. 18 16. 10	3. 51 3. 11 2. 73	11. 35 14. 55 13. 51 15. 86 12. 40 9. 68	2. 19 2. 81 2. 61 3. 06 2. 39 1. 87	10. 53 10. 84 10. 93 13. 45 9. 48 8. 61	2. 03 2. 09 2. 11 2. 60 1. 83 1. 66	6. 67	1. 29	5. 02 7. 01 6. 70	. 9 1. 3 1. 2	
All industries	16. 22	3. 13	12. 57	2.43	9. 90	1.91	6. 36	1. 23	5.45	1.0	

#### Earnings per hour

and the state of t	Francs		Francs		Francs		Francs		Francs	
Metal and machine	1.82	\$0.35	1. 50	\$0.29	1. 18	\$0.23	0.80	\$0. 15	0.60	\$0.
Building	1.71	. 33	1.54	. 30	1. 17	. 23			. 89	
Wood	1.63	. 31	1.41	. 27	1.04	. 20	. 73	. 14	. 63	
Textiles	1.39	. 27	1. 23	. 24	1.09	. 21	.77	. 15	. 65	
Watch and clock			1.48	. 29	1.01	. 19	. 86	. 17	. 60	
Stone and earth			1.47	. 28	1. 12	. 22	. 68	. 13	, 90	
Shoe			1. 28	. 25	1.08	. 21	. 82	. 16	. 55	
Paper			1.38	. 27	1. 10	. 21	. 67	. 13	. 52	
Printing			2.00	. 39	1. 16	. 22	. 78	. 15	. 50	
Chemical			1.46	. 28	1. 23	. 24	.74	. 14	. 63	
Food, drink, and tobacco			1.61	. 31	1.45	. 28	. 68	. 13	. 58	
Cransportation			1.44	. 28	1. 21	. 23				
Warehousing and commerce			1.60	. 31	1. 27	. 25	.78	. 15		
Electric light and power			1. 54	. 30	1. 10	. 21				
as and water works			1.70	. 33	1.38	. 27				
Mines and quarries			1.38	. 27	1.03	. 20			. 73	
Forestry			1.02	. 20	. 99	. 19				
All industries	1. 67	. 32	1, 49	. 29	1. 16	. 22	. 76	. 15	. 68	

Metal and machine industries.—Wage rates in the metal and machine industries, published in the 25th annual report of the Employers' Association of Swiss Machine and Metal Industrialists for the year 1930, are as follows:

TABLE 3.—AVERAGE HOURLY AND WEEKLY EARNINGS OF WORKERS IN METAL AND MACHINE INDUSTRIES IN SWITZERLAND IN 1930

[Conversions into United States currency on basis of franc=19.3 cents]

in the Shart in the above the		Average	earnings		
Oecupation	Per	hour	Per week		
	Swiss currency	United States currency	Swiss currency	United States currency	
Skilled workers Helpers Average, all workers	Francs 1. 59 1. 26 1. 44	\$0.31 .24 .28	Francs 76, 18 60, 34 69, 07	\$14. 70 11. 65 13. 33	

The average hourly wages in the silk dying and throwing industry located in the Canton of Zurich are shown below:

	Per nour
Dyers, male	1.81 francs (34.9 cents).
Dyers, helpers, male	1.43 francs (27.6 cents).
Skilled workers, female	0.95 franc (18.3 cents).
Unskilled workers, female	0.82 franc (15.8 cents).

## Wages in the Basel District

There are several important manufacturing industries in the Basel consular district, and agriculture is carried on to some extent. The principal products of the manufacturing industries in this district are: Aniline dyes, chemicals, pharmaceutical products, watches, silk ribbons, spun silk, shoes, magnetos, automatic time switches, and machinery.

In all instances, wages given are those in effect at the present time, the figures being furnished by persons connected with Basel indus-No published material concerning wages paid in local industries has been found available, and little information on the subject could be obtained from official sources.

Mechanical industries.—In the Basel district, skilled mechanics employed in factories making electrical and other kinds of machinery earn, on the average, 1.70 francs (33 cents) an hour. The 48-hour week is established in nearly all factories throughout Switzerland.

Foremen in machine shops receive an average of approximately 2 francs (39 cents) an hour. Apprentices, usually youths who begin their apprenticeship at 14 or 15 years of age and are apprenticed for 3½ or 4 years, receive 0.12 franc (2 cents) an hour in the first year, 0.18 franc (3.5 cents) an hour in the second year, 0.24 franc (4.6 cents) an hour in the third year, and 0.30 franc (5.8 cents) an hour in the fourth year.

Agriculture.—Men employed as skilled farm workers in this district receive 80 to 100 francs (\$15.44 to \$19.30) a month, and also their board and lodging, considered as worth approximately 150 francs (\$28.95) a month. Less skilled workers, including youths and women, receive varying rates of pay less than 80 francs a month, depending upon their qualifications.

Chemical industry.—In the chemical industry, men with some training and experience receive an average wage of 1.40 to 1.50 francs

per men

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(27 to 29 cents) an hour, "full time" being 48 hours a week. Foremen and specially skilled workers receive as much as 2 francs (39 cents) an hour. Women and girls employed as packers earn between 0.80 and 0.90 franc (15 and 17 cents) an hour.

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Spun-silk industry.—Most of the workers in the Basel spun-silk industry are women and girls. The usual wage earned by skilled workers is 8 francs (\$1.54) a day, on the basis of five and one-half working-days to the week. The less skilled woman employees receive from 6 to 7 francs (\$1.16 to \$1.35) a day. Men employed as mechanics to repair looms earn 10 to 12 francs (\$1.93 to \$2.32) a day.

Ribbon industry.—Wages paid in the Basel ribbon factories are practically the same as those given for the spun-silk industry. The manufacture of ribbons in this district was formerly of considerable importance but has greatly decreased in the last few years. When the industry was more important, a large part of the work was carried on in the homes of the workers. Looms were supplied by the employers and payment was on a piece-rate basis. There is little production by the home workers at the present time.

Watch industry.—Men employed as skilled workers in watch factories located in the Basel district earn from 1.50 to 2 francs (29 to 39 cents) an hour. Unskilled men receive 1.20 francs (23 cents) an hour. Apprentices are paid 0.40 franc (8 cents) an hour.

Women employed as skilled workers are paid from 1.30 to 1.40 francs (25 to 27 cents) an hour, while unskilled woman workers receive 0.80 franc (15 cents) an hour.

Shoe industry.—Workers in the shoe industry are divided into a number of classes according to the particular kind of work performed, but the general division between skilled and unskilled workers and apprentices may be made. Skilled men are paid on the average 1.50 francs (29 cents) an hour. Unskilled men earn about 1 franc (19 cents) an hour, while apprentices receive from 0.50 to 0.70 france (10 to 14 cents) an hour.

Skilled woman workers receive 0.90 francs (17 cents) an hour, while women and girls employed as apprentices or unskilled workers are paid 0.50 to 0.60 franc (10 to 12 cents).

#### Payment for Overtime Work

In Switzerland factory owners desiring to use their employees on overtime work must obtain special permission from the authorities and are required to pay a higher rate for overtime work than is paid for work during the usual hours.

#### Payments Supplementary to Wages

While few workers in the Basel district receive supplementary payments in the nature of family allowances, payments in kind, free housing, or land for gardening, nearly all workers receive an annual vacation with pay. The duration of the vacation granted varies considerably in the different industries, but as a rule from 7 to 14 days are given. Usually the number of days of vacation that may be granted depends upon the length of service.

#### Deductions from Wages

Employers in this part of Switzerland make no deductions from wages in the nature of special wage taxes. Nearly all workers, however, are subject to income tax as levied by the cantonal governments. In the Canton of Basel-City, persons without dependents are subject to income tax if their annual income is 2,000 francs (\$386) or more. The personal exemption for persons having dependent relatives to support is 3,500 francs (\$675.50).

Factory and other workers are required to be insured against unemployment either with the unemployment insurance office of the Canton or with a private insurance organization that is officially recognized and controlled. In the Canton of Basel-City persons insured with the cantonal institution are classified into five daily wage classes, the contribution per month for each of these five classes

being as follows:

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	Monthly contribution
Up to 6 francs (\$1.16)	0.70 franc (13.5 cents).
6.01 to 9 francs (\$1.16 to \$1.74)	1.00 franc (19.3 cents).
9.01 to 12 francs (\$1.74 to \$2.32)	1.50 francs (29.0 cents).
12.01 to 14 francs (\$2.32 to \$2.70)	2.00 francs (38.6 cents).
Over 14 francs (\$2.70)	2.50 francs (48.3 cents).

Some of the private unemployment insurance organizations are conducted by employers in cooperation with employees and in such instances the employers share in the payment of contributions. Some employers pay the entire amount. All employers in the Canton of Basel-City are required to contribute to a so-called "crisis fund" of the cantonal unemployment insurance office, the amount of contribution being two-tenths of 1 per cent of the amount of wages paid out to their employees. This fund is not used unless the cantonal subsidy, public and private, exceeds five times the contribution of the employers.

In addition to premiums paid for unemployment insurance, many employers in this district pay premiums to insure their workers against accident and illness, and in some cases make provision for pension funds. It is understood that the total amount paid out in this way for social insurance contribution often amounts to as much as 1.50 francs (29 cents) a day for each worker, this amount being in addi-

tion, of course, to wages.

# Wages in Agriculture

In 1888 the Swiss census showed 1,092,827 persons engaged in agriculture. Each successive census since that time has shown a decrease, there being in 1920 only 971,696 persons so engaged. During the same period the number of agricultural workers employed decreased from 126,020 to 96,575. These figures are part of a study of conditions in agriculture in Switzerland made in 1929–30 by the secretariat of the Swiss Farmers' Union. According to the report, the number of workers in agriculture has shown a still further decrease since 1920, so marked a decrease that one of the purposes of the study was to ascertain to what conditions the exodus of workers has been due and what could be done to remedy the situation.

The study covered all of the Cantons of Switzerland. Inquiries were addressed to 3,019 communes and replies were received from

2,335, or 77.3 per cent. Among the subjects covered were the questions of money wages, payments in kind, working hours, and general farm costs.

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Table 4 shows the rates paid in specified occupations in 1930 and gives comparative figures for the period before the World War and in 1921, taken from previous studies by the secretariat:

TABLE 4.—WAGE RATES PAID FOR SPECIFIED AGRICULTURAL OCCUPATIONS IN SWITZERLAND

[Conversions into United States currency on basis of franc=19.3 cents]

			Average w	vage rates		
	Pre	-war	19	021	19	930
Occupation	Francs	United States currency	Francs	United States currency	Francs	United States currency
			Per v	veek		
Head men	15, 80	\$3, 05	29, 65	\$5, 72	{ 1 27. 55 2 32. 90	1 \$5. 32 2 6. 35
Cowherds	13, 90	2, 68	25, 90	5, 00	1 23, 80	1 4, 59
Carters	13, 30 10, 90 6, 85	2. 57 2. 10 1. 32	24, 90 21, 20 13, 00	4. 81 4. 09 2. 51	23, 10 23, 10 19, 55 13, 70	2 5. 48 4. 46 3. 77 2. 64
	(n n		Per	day	11	
Day laborers:						
Summer rate	********		11. 30 8. 20	\$2, 18 1, 58	9, 60 6, 85	\$1, 85 1, 32
Summer rate			5, 90 4, 45	1. 14 . 86	5, 75 4, 05	1, 11
Day laborers receiving board and lodging:  Males—  Summer rate  Winter rate			7. 25 4. 80	1. 40	6.30 4.15	1, 22
Females— Summer rate Winter rate			3, 90 2, 85	.75	3, 90 2, 70	.78

<sup>1</sup> Single men.

In addition to money wages, it is the custom in some places to furnish certain payments in kind. In the case of married workers these usually include housing accommodations, use of work animals, and the use of land for gardening. In the case of unmarried workers, clothing is sometimes furnished, or their laundry work done, etc. In the 937 cases in which data were obtained, the average annual value of such additional payments was 57 francs (\$11) per capita in the case of unmarried workers, and 95 francs (\$18) in the case of married workers.

The following table shows the average annual wages of different classes of farm workers and the value of board and lodging and of different payments in kind.

<sup>&</sup>lt;sup>2</sup> Married men.

TABLE 5.—AVERAGE ANNUAL WAGES OF SWISS AGRICULTURAL WORKERS, AND VALUE OF PAYMENTS IN KIND, IN 1930

[Conversions into United States currency on basis of franc=19.3 cents]

The second second	Average annual remuneration of—											
Item		ed mas- rmer <sup>1</sup>	Single milker		Tea	Teamster		oorer	Maid servant			
	Swiss cur- rency	United States cur- rency	Swiss cur- rency	United States cur- rency	Swiss cur- rency	United States cur- rency	Swiss cur- rency	United States cur- rency	Swiss cur- rency	United States cur- rency		
Cash wage Food Other payments in kind_ Lodging	Francs 1, 720 1, 000 100 360	\$331. 96 193. 00 19. 30 69. 48	Francs 1, 250 1, 000 60 100	\$241. 25 193. 00 11. 58 19. 30	Francs 1, 200 1, 000 60 100	\$231, 60 193, 00 11, 58 19, 30	Francs 920 1,000 60 100	\$177. 56 193. 00 11, 58 19. 30	Francs 710 800 60 100	\$137. 03 154, 40 11, 58 19, 30		
Total	3, 180	613. 74	2, 410	465, 13	2, 360	455, 48	2,080	401, 44	1,670	322, 3		

Does not include remuneration for his wife's services.

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Unmarried foremen may receive a cash wage 8 to 12 francs less per week than married foremen, the average decrease working out at 5.25 francs. Unmarried stockmen receive on an average 4.60 francs less per week in cash than married stockmen. It may be remarked that those described as ordinary laborers are usually young men who later in life are ranked as waggoners, stockmen, etc.

Table 6 shows the average number of working hours per day in the various seasons of the year in 1930 as compared with 1909. As is

seen, a slight increase has taken place.

TABLE 6.—AVERAGE LENGTH OF WORKING-DAY IN AGRICULTURE IN SWITZER-LAND, 1909 AND 1930

Alexander of the state of	Average working hours per day										
Season	St	able er	mploy	Othe	Other male employees						
the state of the s	19	909	19	930	19	909	193	30			
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
Spring	12	10	12	25	11	20	11	25			
Hay harvest	13	30	13	45	13	30	13	30			
Summer	13	10	13	10	12	25	12	45			
Autumn	12	10	12	10	11	20	11	20			
Winter	11	10	11	10	9	40	10	00			
Yearly average	12	10	12	15	11	15	11	25			

An average of 2.10 hours is allowed for meal times so that the shortest day from home which a stockman, etc., can hope for even in winter is nearly 13½ hours, while his longest day is practically 16 hours; the shortest day for any worker at any season exceeds 12 hours. In addition, there is Sunday work. This is sometimes, but by no means always, and usually only in the vicinity of towns, compensated by extra remuneration, rather uncertain in amount, being anything between 80 centimes (15 cents) and 1.20 francs (23 cents) per hour, or even only a sort of tip.

Vacations.—In the course of the year 10.8 free days on an average are allowed to those engaged in the care of animals and 24 days to others; the number of days allowed varies a good deal in the different Cantons, as does in general the amount of Sunday work required.

# TREND OF EMPLOYMENT

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# Summary for January, 1932

MPLOYMENT decreased 3.9 per cent in January, 1932, as compared with December, 1931, and total pay rolls decreased

7.5 per cent.

The industrial groups surveyed, the number of establishments reporting in each group, the number of employees covered, and the total pay rolls for one week, for both December, 1931, and January. 1932, together with the per cents of change in January, are shown in the following summary:

SUMMARY OF EMPLOYMENT AND TOTAL PAY ROLLS, DECEMBER, 1931, AND JANUARY, 1932

	Estab-	Emplo	yment	Per	Pay roll	in 1 week	Per
Industrial group	lish-	December,	January,	cent of	December,	January,	cent of
	ments	1931	1932	change	1931	1932	change
1. Manufacturing 2. Coal mining Anthracite Bituminous 3. Metalliferous mining	16, 197 1, 359 160 1, 199 239	2,788,626 297,841 109,138 188,703 29,586	2, 716, 535 291, 970 104, 183 187, 787 28, 465	1 -2.8 -2.0 -4.5 -0.5 -3.8	\$57, 775, 112 6, 263, 328 3, 114, 085 3, 149, 243 613, 150	\$54, 022, 362 5, 268, 642 2, 441, 555 2, 827, 087 531, 045	1 -6,1 -15,1 -21,1 -10,1
4. Quarrying and non- metallic mining	618	22, 158	20, 088	-9, 3	408, 000	334, 354	-18,
6. Public utilities  Telephone and telegraph  Power, light, and water  Electric railroad operation and maintenance, exclu-	236	20, 659	19, 509	-5.6	751, 193	635, 767	-15,
	12,059	661, 261	657, 597	-0.6	20, 459, 614	19, 699, 312	-3,
	8,178	294, 116	293, 708	-0.1	8, 856, 828	8, 515, 984	-3,
	3,383	233, 119	230, 528	-1.1	7, 416, 966	7, 186, 307	-3,
sive of car shops	498	134, 026	133, 361	-0.5	4, 185, 820	3, 997, 021	-4.
	14, 390	488, 674	400, 489	-18.0	11, 056, 830	9, 414, 246	-14.
	2, 457	67, 692	66, 213	-2.2	2, 011, 045	1, 916, 984	-4.
	11, 933	420, 982	334, 276	-20.6	9, 045, 785	7, 497, 262	-17.
8. Hotels	2, 262	140, 675	140, 772	+0.1	2 2, 202, 488	2 2, 157, 811	-2,
	783	26, 531	22, 792	-14.1	421, 119	362, 503	-13,
	813	55, 295	54, 882	-0.7	968, 895	955, 826	-1,
	295	9, 726	9, 404	-3.3	198, 201	192, 024	-3,
Total	49, 251	4, 541, 032	4, 362, 503	-3.9	101, 117, 930	93, 573, 892	-7,

#### RECAPITULATION BY GEOGRAPHIC DIVISIONS

GEOGRAPHIC DIVISION 3							
New England	7, 174	500, 075	480, 714	-3.9	\$10, 944, 573	\$10, 364, 755	-5.3
Middle Atlantic	8, 727	1, 379, 535	1, 311, 866	-4.9	32, 828, 654	29, 865, 254	-9.0
East North Central	10, 332	1, 196, 711	1, 168, 826	-2.3	27, 490, 754	25, 778, 203	-6.
West North Central	5, 108	285, 840	274, 620	-3.9	6, 533, 513	6, 105, 566	-6.
South Atlantic	5, 242	493, 366	484, 588	-1.8	8, 546, 227	8, 082, 126	-5.
East South Central	2, 493	185, 643	178, 098	-4.1	2, 854, 579	2, 629, 322	-7.5
West South Central	2, 933	154, 831	146, 779	-5.2	3, 475, 228	3, 150, 702	-9.
Mountain	1,826	84, 361	75, 707	-10.3	2, 030, 475	1, 746, 775	-14.0
Pacific	5, 416	260, 670	241, 305	-7.4	6, 413, 927	5, 851, 189	-8.8
All divisions	49, 251	4, 541, 032	4, 362, 503	-3, 9	101, 117, 930	93, 573, 892	-7.

<sup>1</sup> Weighted per cent of change for the combined 89 manufacturing industries, repeated from Table I, manufacturing industries; the remaining per cents of change, including total, are unweighted.
<sup>2</sup> The amount of pay roll given represents cash payments only; the additional value of board, room, and tips can not be computed.
<sup>3</sup> New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont. Middle Atlantic: New Jersey, New York, Pennsylvania. East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin. West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota. South Atlantic: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia. East South Central: Alabama, Kentucky, Mississippi, Tennessee. West South Central: Arkansas, Louisiana, Oklahoma, Texas. Mountain: Arizona, Colorado, Idaho, Montana, New Mexico, Nevada, Utah, Wyoming. Pacific: California, Oregon, Washington.

All of these industrial groups, with the exception of hotels, reported decreases, over the month interval, in both employment and earnings. As regards number of persons employed, the decreases ranged from 0.1 per cent in the telephone and telegraph group to 20.6 per cent in the retail trade group. As regards total pay roll, the decreases ranged from 1.3 per cent in laundries to 21.6 per cent in anthracite mining. The hotel group reported an increase in employment of 0.1 per cent and a decrease in earnings of 2 per cent.

All the geographic divisions reported decreases in employment in January, 1932, as compared with December, 1931, coupled with larger decreases in total pay roll. The South Atlantic group showed the smallest change in numbers employed, 1.8 per cent, while the New England States had the smallest decrease in pay rolls, 5.3 per cent. The Mountain division reported the largest decreases in both items, namely, 10.3 per cent in employment and 14 per cent in earnings.

PER CAPITA WEEKLY EARNINGS IN JANUARY, 1932, AND COMPARISON WITH DECEMBER, 1931, AND JANUARY, 1931

Industrial group	Per capita weekly earnings in	Per cent January, pared wit	of change, 1932, com- th—
	January, 1932	December, 1931	January, 1931
1. Manufacturing (89 industries)	\$19.89	-4.2	-12. 2
2. Coal mining:	23, 44	-17.9	-18.3
Bituminous	15. 05	-9.6	-16, 5 -25, 5
3. Metalliferous mining	18. 66	-10.0	-25. 1 -25. 1
4. Quarrying and nonmetallic mining	16. 64	-9.8	-21.1
5. Crude petroleum producing.	32. 59	-10.3	-11.5
6 Public utilities:	1		
Telephone and telegraph	28. 99	-3.8	+0.9
Power, light, and water	31. 17	-2.0	-0.4
Electric railroads	29. 97	-4.0	-5.1
7. Trade:			
Wholesale	28. 95	-2.6	-7.4
Retail		+4.5	-6.7
8. Hotels (cash payments only) 1.	15. 33	-2.1	-8.4 -3.8
9. Canning and preserving	15. 90 17. 42	(2)	-3. 8 -5. 8
11. Dyeing and cleaning.	20. 42	+0.2	-8.0
ar by Joing and Cleaning	20. 12	70.2	-0.0
Total	21. 45	-3.7	-9.6

The additional value of board, room, and tips can not be computed.

No change.

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Per capita earnings for January, 1932, given in the preceding table, must not be confused with full-time weekly rates of wages; they are actual per capita weekly earnings, computed by dividing the total amount of pay roll for the week by the total number of employees (part-time as well as full-time workers). Comparisons are made with per capita earnings in December, 1931, and in January, 1931.

Data are not yet available showing railroad employment for January, 1932. Reports of the Interstate Commerce Commission for Class I railroads show that the number of employees (exclusive of executives and officials) decreased from 1,154,540 on November 15, 1931, to 1,119,396 on December 15, 1931, or 3.0 per cent; the amount of pay roll decreased from \$148,646,952 in November to \$147,562,367 in December, or 0.7 per cent.

### Employment in Selected Manufacturing Industries in January, 1932

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Comparison of Employment and Pay Rolls in January, 1932, with December, 1931, and January, 1931

EMPLOYMENT in manufacturing industries decreased 2.8 per cent, while earnings fell 6.9 per cent in January, 1932, as compared with December, 1931. During the year ending with January, 1932, the number of persons employed decreased 13.1 per cent, while the total pay roll decreased 23.7 per cent.

The per cents of change in employment and earnings in January, 1932, as compared with December, 1931, are based on returns made by 16,197 establishments in 89 of the principal manufacturing industries in the United States, having in January 2,716,535 employees

whose earnings in one week were \$54,022,362.

Recently the bureau has obtained for the year 1926 data as to employment and pay rolls from 31 industries heretofore not included in the index numbers. Six industries which have heretofore been included with other industries are now presented separately. Two small industries have been discontinued. The 1931 index numbers have been recomputed for all manufacturing and for the industry groups affected by the changes.

This revision shows an average index number for employment of 72.2 for the year 1931 as compared with the old index number, 70.9. This difference in the index is due to the fact that there has been, since 1926, less shrinkage in the industries just added than in those previously covered. The old and new general index numbers for

1931 are shown in Table 3.

The index of employment in January, 1932, is 64.8 as compared with 66.7 in December, 1931, 67.1 in November, 1931, and 74.6 in January, 1931. The index of the total pay roll for January, 1932, is 48.6, as compared with 52.2 for December, 1931, 52.5 for November, 1931, and 63.7 for January, 1931. The 12-month average for 1926

equals 100.

Of the 14 groups of manufacturing industries upon which the bureau's indexes of employment and pay roll are based, the leather group reported increases in both employment and earnings over the month interval—3.5 and 6 per cent, respectively. The transportation equipment group showed a gain of 3.1 per cent in employment and a loss of 1.7 per cent in earnings. The remaining 12 groups reported losses in both items, the largest decreases in employment occurring in the stone, food, railroad repair shop, and lumber groups. In January, 1932, as compared with January, 1931, the transportation equipment group showed a loss of 10.7 per cent in employment and a gain of 5.9 per cent in earnings, while the remaining 13 groups showed losses in both employment and earnings.

Increases in employment from December to January were shown in 18 of the 89 separate manufacturing industries covered, while increased pay rolls were reported in 9 industries. The most pronounced increase in employment was shown in the millinery industry, but the fertilizer, automobile, and agricultural-implement industries also showed substantial gains. Seventy industries reported losses in both

employment and earnings, and one industry, men's clothing, showed

a loss in employment coupled with an increase in pay roll.

A comparison of January, 1932, with January of the previous year shows that five industries—millinery, corsets, hosiery, rayon, and wirework—gained in numbers employed. One industry, automobiles, showed an increase in earnings. The remaining 83 industries showed decreases in both items.

In January, 1932, as compared with December, 1931, decreases in both number of employees and total pay rolls were reported by all the geographic divisions. These ranged from 0.7 per cent in employment in the East North Central States to 23.5 per cent in the Mountain division. Pay rolls in the New England division suffered a falling off over the month interval of only 4.7 per cent, while the Mountain States had a loss of 26.4 per cent. The decreases in the Mountain States are due largely to a seasonal decline in the beet-sugar industry.

All the geographic divisions also had losses in both items in January, 1932, as compared with January, 1931. The South Atlantic States showed the smallest drop in employment and in pay rolls over the year interval—namely, 2.9 per cent and 15.7 per cent, respectively. The Mountain division registered the greatest falling off over the same period—36.0 per cent in employment and 36.9 per cent in pay

rolls.

In Table 1, which follows, are shown the number of identical establishments reporting in both December, 1931, and January, 1932, in the 89 manufacturing industries, together with the total number of employees on the pay rolls of these establishments during the pay period ending nearest January 15 and the amount of their weekly earnings in January, the per cents of change over the month and the year intervals, and the index numbers of employment and total pay

rolls in January, 1932.

The monthly per cents of change in employment and earnings for each of the 89 separate industries are computed by direct comparison of the total number of employees for the former and of the amount of weekly earnings for the latter in identical establishments for the two months considered. The per cents of change over the month interval in the several groups and in the total of the 89 manufacturing industries are computed from the index numbers of these groups, which are obtained by weighting the index numbers of the several industries in the groups by the number of employees or wages paid in the industries. The per cents of change over the year interval in the separate industries in the groups and in the totals are computed from the index numbers of employment and total pay rolls.

TABLE 1.—COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLLS IN IDENTICAL MANUFACTURING ESTABLISHMENTS IN DECEMBER 1931, AND JANUARY, 1932, PER CENTS OF CHANGE OVER A YEAR INTERVAL, AND INDEX NUMBERS OF EMPLOY. MENT AND PAY ROLLS, JANUARY, 1932

T

		Emp	ployme	nt	Total	pay ro	lls	Index	num-
	Estab-	Estab- lish-		ent of			ent of	bers January, 1932 (average, 1926=100)	
Industry	ments report- ing in both mos.	report- ing in both rolls, Jan- mos. uary, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary- 1931, to Jan- uary, 1932	Amount of pay rolls (1 week) January, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary, 1931, to Jan- uary, 1932	Employ- ment	Total pay rolls
Food and kindred products. Slaughtering and meat	2, <b>596</b> 204	230, 968 86, 859	-6.8 -1.9	-8.2 -5.3	\$5, 372, 942 2, 027, 416		-16, 6 -18, 4	83, 1 91, 5	<b>75.</b> 2 83. 0
packing Confectionery Ice cream Flour. Baking Sugar refining, cane. Beet sugar Beverages Butter.	834 14 46	31, 858 10, 472 15, 257 59, 918 7, 854 4, 045 9, 708 4, 997	-15. 1 -0. 6 -0. 7 -2. 8 -1. 0 -71. 7 -2. 6 -6. 9	-8.9 -8.2 -5.9 -6.9 -2.7 -63.1 -8.0 -6.2	535, 240 321, 175 346, 103 1, 475, 418 199, 619 88, 667 257, 586 121, 718	-1.6 -2.3 -3.2 -3.5 -68.7 -4.6	-18.4 -15.0 -16.1 -13.2 -14.0 -55.6 -16.9 -14.1	75. 7 68. 2 85. 1 84. 3 79. 2 51. 0 73. 3 91. 5	66. 2 62. 8 73. 6 77. 8 68. 2 42. 4 61. 6 82. 7
Cotton goods	2,756 533 376 265 180 33	544, 236 180, 458 86, 402 49, 494 46, 252 15, 418	-1.2 -1.3 -5.2 -1.9 +2.0 -0.3	$ \begin{array}{r} -5.0 \\ -0.4 \\ +6.8 \\ -14.8 \\ -2.2 \\ -6.1 \end{array} $	8, 222, 472 2, 173, 509 1, 198, 324 769, 681 862, 562 287, 781	-3.6 -2.6 -14.0 -8.7 +3.2 -0.9	-17,2 -15,3 -8,1 -25,3 -8,1 -11,4	72. 2 72. 9 80. 1 69. 5 67. 3 62. 9	54. 0 55. 3 59. 2 52. 9 56. 9 44. 5
tiles	144 348 106 396 133	36, 950 54, 588 14, 067 25, 080 10, 280	-(1) $-0.3$ $-8.1$ $-2.8$ $+14.1$	-10.7 -6.5 -10.7 -18.6 +0.3	786, 926 858, 498 163, 534 504, 605 203, 825	$     \begin{array}{r}       -2.1 \\       +1.3 \\       -6.8 \\       -9.6 \\       +22.0     \end{array} $	-18.5 -19.5 -24.4 -30.5 -3.8	83. 0 66. 6 60. 0 71. 5 77. 0	70. ( 43. 4 40. ( 50. ) 60. 9
ments Cotton small wares Hats, fur-felt Men's furnishings	30 103 39 70	5, 127 9, 680 5, 708 4, 732	+3.4 +2.4 -1.1 -13.9	+2.4 $-9.8$ $-20.7$ $-13.8$	80, 198 168, 957 100, 719 63, 353	+5.4 +4.5 -0.4 -21.9	-33.0	101. 4 84. 8 69. 1 62. 4	86. 71. 42. 46.
ron and steel and their products, not including machinery.  Iron and steel. Cast-iron pipe. Structural-iron work. Hardware. Steam fittings and steam	1,302 203 41 168 91	328, 014 193, 807 8, 698 19, 143 23, 149	-3.0 -0.9 -7.4 -5.5 -1.9	-15.9 -16.4	5, 583, 036 3, 112, 282 140, 640 405, 143 397, 348	-11. 1 -11. 3 -17. 5 -9. 4 -5. 7	-38, 0 -44, 0 -34, 8 -40, 2 -29, 3	62. 1 62. 5 45. 5 58. 8 59. 3	36, 6 32, 9 30, 40, 37, 9
and hot-water heating apparatus	105 130	19, 810 12, 302	$-8.2 \\ -17.0$	-27.6 -15.7	354, 403 220, 929	$-14.8 \\ -21.9$	-46.0 -31.4	44. 1 44. 4	26. 26.
Bolts, nuts, washers, and rivets	62 156 49 63 54	7, 532 13, 769 5, 094 4, 795 7, 385	+0.1 -2.3 -4.7 +0.8 -2.4	-12.3 -7.7 -8.4 -14.3 -14.7	139, 077 266, 246 95, 431 73, 194 157, 432	-3.5 -4.4 -10.9 -14.2 -2.4	-26. 2 -19. 8 -26. 3 -31. 5 -19. 6	71. 5 70. 7 67. 2 70. 6 74. 4	47. 52. 41. 43. 48.
tools	119 61	7, 494 5, 036	-5.7 $-5.8$	-12.7 + 10.1	125, 187 95, 724	$-12.2 \\ -11.5$	-21.8 -4.9	77. 5 100. 6	49. 77.
Lumber and allied products Lumber, sawmills Lumber, millwork Furniture Turpentine and rosin	1,396 597 348 432 19	127, 031 60, 610 19, 938 45, 580 903	-5.8 -5.8 -6.9 -6.2 +0.7	-15.0	1, 784, 132 728, 994 333, 573 707, 885 13, 680	-14.3 -17.1 -12.2 -13.4 -1.6	-39.4 -47.2 -33.0 -31.0 -27.4	42. 2 37. 4 43. 3 53. 3 47. 7	26. 21. 30. 33. 40.
Leather and its manufac- tures  Leather  Boots and shoes	422 137 285	117, 745 21, 800 95, 945	+3.5 +0.6 +4.1	-2.3 -9.4 -0.7	1, 928, 240 435, 050 1, 493, 190	+6.0 -4.3 +9.5	-12.1 -20.7 -9.0	74.9 70.3 76.0	<b>51.</b> 55. 50.

<sup>&</sup>lt;sup>1</sup>Less than one-tenth of 1 per cent.

TABLE 1.—COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLLS IN IDENTICAL MANUFACTURING ESTABLISHMENTS IN DECEMBER, 1931, AND JANUARY, 1932, PER CENTS OF CHANGE OVER A YEAR INTERVAL, AND INDEX NUMBERS OF EMPLOYMENT AND PAY ROLLS, JANUARY, 1932—Continued

	1111	Emp	oloymer	nt	Total	pay ro	lls .	Index	
	Estab-			ent of			ent of nge	bers Ja 1932 (a 1926=	verage
Industry	ments report- ing in both mos.	Number on pay rolls, Jan- uary, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary- 1931, to Jan- uary, 1932	Amount of pay rolls (1 week) January, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary, 1931, to Jan- uary, 1932	Em- ploy- ment	Total pay rolls
Paper and printing Paper and pulp Paper boxes	1, 698 391 294	212, 868 75, 787 21, 205	-2.1 -0.3 -8.4	-7.6 -6.2 -9.9	\$5, 894, 870 1, 509, 994 409, 527	-5.9 -5.9 -12.1	-15.4 -22.7 -17.8	86, 5 77, 4 74, 6	79. 57. 65.
Printing, book and job Printing, newspapers and periodicals	611	52, 556 63, 320	-1.0 -2.2	-11.3 -4.0	1, 594, 051 2, 381, 298	-4.3 -6.3	-18. 2 -8. 9	85. 9 102. 8	79. 98.
hemicals and allied prod- ucts	900	132, 194	-1.0	-13.3	3, 185, 302	-4.5	-20.3	80, 2	70.
Chemicals Fertilizers Petroleum refining Cottonseed oil, cake, and	110 201 100	20, 747 7, 196 46, 728	$ \begin{array}{r} -1.2 \\ +5.5 \\ -0.2 \end{array} $	-11. 4 -30. 3 -17. 0	540, 507 104, 608 1, 388, 440	-5.3 -1.6 -2.5	-17. 0 -39. 0 -23. 6	89. 9 51. 2 67. 2	71. 40. 62.
meal Druggists' preparations Explosives Paints and varnishes Rayon	324 19	1, 772 5, 314 3, 229 14, 146 24, 105	-15.3 +0.4 -3.5 -1.7 +1.4	-48. 2 -4. 9 -21. 4 -9. 4 +9. 2	23, 901 112, 148 60, 561 338, 554 406, 995	-19. 2 -4. 9 -16. 6 -6. 0 -3. 1	-39.8 -12.9 -26.8 -18.9 -9.0	45. 5 80. 7 86. 8 73. 4 149: 9	49. 82. 56. 63. 128.
Soapstone, clay, and glass prod-	62	8, 957	-1.9	-3.0	209, 588	-2.9	-19.9	95. 9	87.
Cement	1, 308 113 689 106 188 212	86, 524 13, 620 18, 957 13, 679 35, 026 5, 242	-11.6 -9.9 -16.9 -5.1 -8.2 -18.3	-23. 4 -21. 2 -29. 4 -16. 6 -10. 7 -40. 6	1, 567, 725 266, 200 255, 509 239, 306 680, 221 126, 489	-18.6 -16.4 -27.0 -12.4 -13.1 -25.0	-38, 5 -34, 2 -50, 3 -26, 1 -22, 9 -53, 3	47. 1 44. 2 31. 0 65. 6 60. 1 52. 3	32, 29, 15, 44, 45, 39,
Nonferrous metals, and their products	547	77, 339	-3.8	-15, 2	1, 478, 553	-9.8	-29.9	60.8	44.
Stamped and enameled ware	86	13, 239	-4.8	-8.2		-12.7	-20.6	63.0	43.
Brass, bronze, and copper products	166 24	27, 214 5, 493	-2.3 -0.2	-13. 2 -27. 8	528, 309 101, 447	-4.7 -1.6	-27.6 -34.5	60. 9 54. 6	43. 38.
Clocks, clock movements, etc	18 44 37	4, 073 5, 134 5, 019	-9. 2 -6. 5 -9. 0	-11.8 -17.3 -17.4	59, 679 116, 265 105, 339	-16.0 -13.6 -19.2	-35.7 -29.9 -24.9	56. 0 77. 5 64. 3	37. 59. 44.
Smelting and refining, cop- per, lead, and zinc	26 146	8, 938 8, 229	+0.3 -9.3	-15.3 -20.4		-2.9 -16.6	-42.4 -26.8	69.3 41.7	50. 33.
Chewing and smoking to-	217	52, 225	-3,4	-8,4	708, 421	-9.6	-17, 2	71, 2	56.
bacco and snuff	29 188	9, 477 42, 748	+3.5	-1.8 -9.4		+5.5 $-12.0$	-4.1 -19.3	92. 0 68. 5	83. 53.
ransportation equipment. Automobiles. Aircraft Cars, electric and steam	403 228 35	290, 182 242, 536 6, 945	+3.1 +5.4 -3.1	-7.2	5, 576, 948	-1.7 -0.7 -4.1	+19.3	62, 7 64. 9 228. 2	46. 46. 233.
railroad Locomotives Shipbuilding	30 15 95	3, 917 3, 568 33, 216	-15.8 -3.3 -4.1	-48.4 -37.7 -13.1	85, 055	-16.9 -7.6 -4.4	-33.3	17. 5 20. 8 90. 1	10. 17. 79.
Rubber tires and inner	140	72,451	-1.7	-5,9			-16,8	69, 6	51,
Rubber boots and shoes Rubber goods, other than boots, shoes, tires, and	37 8	44, 039 9, 877	+0.5	-5. 2 -5. 9 -7. 3	158, 955	+6.7 -14.8	-16.6 -17.4	65. 3 65. 6	49. 45.

TABLE 1.—COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLLS IN IDENTICAL MANUFACTURING ESTABLISHMENTS IN DECEMBER, 1931, AND JANUARY, 1932, PER CENTS OF CHANGE OVER A YEAR INTERVAL, AND INDEX NUMBERS OF EMPLOYMENT AND PAY ROLLS, JANUARY, 1932—Continued

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		Emp	oloyme	nt	Total	Index num-			
	Estab-			ent of	714.	Per cent of change		bers January, 1932 (average, 1926=100)	
Industry	ments report- ing in both mos.	Number on pay rolls, Jan- uary, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary- 1931, to Jan- uary, 1932	January, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary, 1931, to Jan- uary, 1932	Em- ploy- ment	Total pay rolls
Machinery, not including transportation equipment	1, 610	345, 980	-4.2	-24.5	\$7,420,064	-8.4	-35, 3	59.8	42.4
Agricultural implements Electrical machinery, ap-	70	8, 948	+5.3	-50.0	136, 479	+3.3	-58.7	38.8	27. 6
paratus, and supplies Engines and water wheels_ Cash registers and calculat-	239 71	138, 889 13, 707	$-1.1 \\ -22.7$		3, 317, 477 296, 408	$\begin{array}{r} -4.3 \\ -22.7 \end{array}$	-26.5 -56.9	71.9 44.2	57. 9 30. 7
ing machines	44	15, 948	+1.1	-10.1	393, 380	-4.4	-22.0	77.7	59.
shop products	959 139	116, 942 15, 255	-4.6 -4.6	-24. 5 -35. 8	2, 170, 259 342, 817	-12.1 -6.5	-39.3 -38.5	55.0 47.8	34. 8 34. 8
parts Typewriters and supplies Radio	34 17 37	7, 465 11, 256 17, 570	-0.5 -4.0 -3.8		173, 879 178, 797 410, 568	-2.1 -9.1 -0.4	-16.0 -35.2 -20.8	68. 0 74. 1 77. 9	56. 9 46. 3 73. 0
Railroad repair shops Electric railroad Steam railroad	902 429 473	98, 778 23, 986 74, 792	-0.4	-24, 8 -11, 2 -26, 1	2, 529, 212 687, 774 1, 841, 438	-10.5 -4.3 -11.3	-30, 8 -15, 1 -32, 4	51. 5 73. 3 49. 8	44. 4 67. 4 42. 6
Total—89 industries used in computing index numbers of employment and pay roll	16, 197	2, 716, 535	2-2.8	3-13.1	54, 022, 362	3-6,9	2-23.7	64.8	48.

#### RECAPITULATION BY GEOGRAPHIC DIVISIONS

All divisions	16, 197	2, 716, 535	1-2.8	2-13.1	54, 022, 362	2-6.9	1-23.7	
Pacific	976	91, 065	-5.4	-18.6	1, 928, 382	-10.6	-31.8	 ****
Mountain	381	21, 413	-23.5	-36.0	468, 069	-26.4	-36.9	 
West South Central	748	69, 086	-4.3	-18.0	1, 358, 203	-7.1	-28.4	 
East South Central	690	99, 384	-3.6	-11.2	1, 419, 269	-6.2	-24.7	 
South Atlantic	2,012	328, 065	-0.8	-2.9	4, 969, 678	-4.8	-15.7	 
West North Central	1, 613	144, 489	-2.7	-12.0	3, 051, 412	-6.3	-21.3	 
East North Central	3, 806	830, 991	-0.7	-13.5	17, 492, 323	-5.7	-18.9	
Middle Atlantic	4,000	799, 963	-3.9	-13.8	16, 974, 791	-7.3	-25.3	
GEOGRAPHIC DIVISION <sup>3</sup> New England	1, 971	332, 079	-2.4	-12.5	\$6, 360, 235	-4.7	-23.0	

<sup>3</sup> Weighted per cent of change for the combined 89 manufacturing industries.
<sup>3</sup> New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont. Middle Atlantic: New Jersey, New York, Pennsylvania. East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin. West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota. South Atlantic: Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia. East South Central: Alabama, Kentucky, Mississippi, Tennessee. West South Central: Arkansas, Louisiana, Oklahoma, Texas. Mountain: Arizona, Colorado, Idaho, Montana, New Mexico, Nevada, Utah, Wyoming. Pacific: California, Oregon, Washington.

## Per Capita Earnings in Manufacturing Industries

ACTUAL per capita weekly earnings in January, 1932, for each of the 89 manufacturing industries surveyed by the Bureau of Labor Statistics, together with per cents of change in January, 1932, as compared with December, 1931, and January, 1931, are shown in Table 2.

Per capita earnings in January, 1932, for the combined 89 manufacturing industries were 4.2 per cent lower than for December, 1931,

and 12.2 per cent lower than for January, 1931.

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The average per capita weekly earnings in January, 1932, for the

combined 89 manufacturing industries were \$19.89.

Per capita earnings given in Table 2 must not be confused with full-time weekly rates of wages. They are actual per capita weekly earnings, computed by dividing the total amount of pay roll for the week by the total number of employees (part-time workers as well as full-time workers).

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JANUARY, 1932, AND COMPARISON WITH DECEMBER, 1931, AND JANUARY, 1931

Industry	Per capita weekly earnings	Per cent of c	change com- with—
Industry	january, 1932	December, 1931	January, 1931
Food and kindred products:			
Slaughtering and meat packing	\$23, 34	-3.0	-14.0
Confectionery		-1.3	-10.3
Ice cream		-1.0	-7.4
Flour		-1.6	-11. 2
Baking	24. 64	-0.4	-6.9
Sugar refining, cane	25, 42	-2.5	-11.5
Beet sugar	21. 92	+10.8	+20.1
Beverages		-2.0	-9.7
Butter		-2.1	-8.6
Textiles and their products:			
Cotton goods	12.04	-1.4	-14.9
Hosiery and knit goods		-9.3	-13.6
Silk goods		-7.0	-12.5
Woolen and worsted goods	18, 65	+1.1	-6.5
Carpets and rugs	18, 67	-0.6	-5.8
Dyeing and finishing textiles		-2.1	-9.0
Clothing, men's			-14.0
Shirts and collars		+1.7 +1.4	-15.1
Clothing, women's	20. 12	-7.0	-14.9
Millinery and lace goods	19. 83	+7.0	-3.8
Corsets and allied garments		+1.9	-9.8
Cotton small wares		+20	-10.
Hats, fur-felt		+0.7	-15.
Men's furnishings		-9.3	-12
ron and steel and their products not including machinery:	10. 09	-8.0	-12, 8
Iron and steel	16.06	-10.5	-33. (
Cast iron nine	16. 17	-10.3	-22.0
Cast-iron pipe Structural-iron work	21. 16	-4.2	-19.
		-3.9	
Hardware.		-7.2	-25.
Steam fittings and steam and hot-water heating apparatus		-6.0	-18.8
Stoves		-3.6	-15.
Bolts, nuts, washers, and rivets		-3.6	-13.
Cutlery and edge tools			-12.
Forgings, iron and steel	18. 73	-6.5 -14.9	-19.3
Plumbers' supplies	15. 26		
Tin cans and other tinware	21. 32	(1)	-5.6
Tools, not including edge tools	16. 70	-6.9	-10.4
Wirework	19. 01	-6.0	-13.
Lumber and allied products:			
Lumber, sawmills	12.03	-11.9	-28.
Lumber, millwork	16. 73	-5.7	-17.5
Furniture	15, 53	-7.7	-18.9
Turpentine and rosin	15, 15	-2.3	-8.0

TABLE 2.—PER CAPITA WEEKLY EARNINGS IN MANUFACTURING INDUSTRIES IN JANUARY, 1932, AND COMPARISON WITH DECEMBER, 1931, AND JANUARY, 1931—Con.

Industry	Per capita weekly earnings	Per cent of che pared w	hange com-
Industry	in January, 1932	December, 1931	January,
Leather and its manufactures:			
Leather	19.96	-4.9	-12.
Boots and shoes		+5.1	-12. -8.
Paner and printing:			-8.
Paper and pulp	19. 92	-5, 6	-17.
Paper boxes	19. 31	-4.1	-8.
Printing, book and job	30, 33	-3.3	-7.
Printing, newspapers and periodicals	37. 61	-4.2	-5.
Chemicals and allied products:	00.00		
Chemicals Fertilizers	26, 05 14, 54	$\begin{bmatrix} -4.2 \\ -6.7 \end{bmatrix}$	-6. -12
Petroleum refining		$\begin{bmatrix} -6.7 \\ -2.2 \end{bmatrix}$	-12. -7
Cottonseed oil, cake, and meal	13. 49	-2.2 -4.5	-7. +16.
Druggists preparations.	21. 10	-4. 5 -5. 3	+16. -8.
Explosives	18. 76	-13.5	-8. -6.
Paints and varnishes	23. 93	-4.4	-10.
Rayon	16, 88	-4.5	-16.
Soap		-1.1	-17.
Stone, clay, and glass products:			
Cement		-7.3	-16.
Brick, tile, and terra cotta		-12.1	-29.
Pottery		-7.7 -5.2	-11.
Glass		-5.2 -8.3	-13. -21
Marble, granite, slate, etc	24. 13	-8.3	-21.
Nonferrous metals, and their products: Stamped and enameled ware	17. 30	-8.3	-13.
Brass, bronze, and copper products	17. 30	-8.3 -2.5	-13. -17.
Aluminum manufactures	18. 47	-2.5	-17. -9.
Clocks, clock movements, etc	14, 65	-7.6	-27.
Gas and electric fixtures.	22.65	-7.6	-15.
Plated ware	20. 99	-11.2	-9.
Smelting and refining, copper, lead, and zinc	18. 90	-3.1	-32.
Jewelry		-8.1	-8.
Tobacco manufactures:			
Chewing and smoking tobacco and snuff		+1.9	-2. -11
Cigars and cigarettes	13. 23	-7.8	-11.
Transportation equipment: Automobiles	22, 99	-5.8	+27.
Aircraft		-5.8 -1.0	+27. +5.
Cars, electric and steam-railroad		-1.3	+5. -23.
Locomotives	23.84	-4.5	+6.
Shipbuilding		-0.4	-6.
Rubber products:			
Rubber tires and inner tubes		+6.1	-12.
Rubber boots and shoes	16. 09	-9.4	-12
Rubber goods, other than boots, shoes, tires, and inner tubes	19. 79	-3.7	-10.
Machinery, not including transportation equipment:			
Agricultural implements	15. 25	-1.9	-17. -10.
Electrical machinery, apparatus, and supplies Engines and water wheels.	23. 89 21. 62	(1)	-10. -0.
Cash registers and calculating machines	21. 62	-5,4	-0. -13
Foundry and machine shop products	18. 56	-5.4 -7.8	-19.
Machine tools	22, 47	-2.0	-4
Textile machinery and parts	23. 29	-1.6	-5.
Typewriters and supplies	15. 88	-5.3	-20.
Radio	23. 37	+3.5	+1.
Railroad repair shops:			
Electric railroad.	28. 67	-3.9	-4.
Steam railroad	24.62	-4.9	-8

<sup>1</sup> No change,

# General Index Numbers of Employment and Pay Rolls in Manufacturing Industries

General index numbers of employment and pay rolls in manufacturing industries by months from January, 1926, to December, 1931, inclusive, are shown in the following table for the 54 industries which were formerly used in constructing indexes of employment and earnings. In addition, similar indexes computed from the 89 industries listed in Table 1 are presented for each of the 12 months of 1931 and for January, 1932. Twelve-month averages for each complete year in question are also shown.

Following Table 3 are graphs plotted from these index numbers, showing the trend in employment and earnings by months from

January, 1926, to January, 1932, inclusive.

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-17.3 -8.5 -7.7 -5.0

-6.0 12.6 -7.8

-7.8 -16.2 -8.1 -6.9 10.4

16. 4 17. 5 16. 6 29. 8 11. 2 13. 5 21. 6

13. 3 17. 0 -9. 2 27. 0 15. 4

9. 3 12. 0 8. 0 2. 2 1. 0

7. 8 5. 3 3. 2 6. 8 6. 7

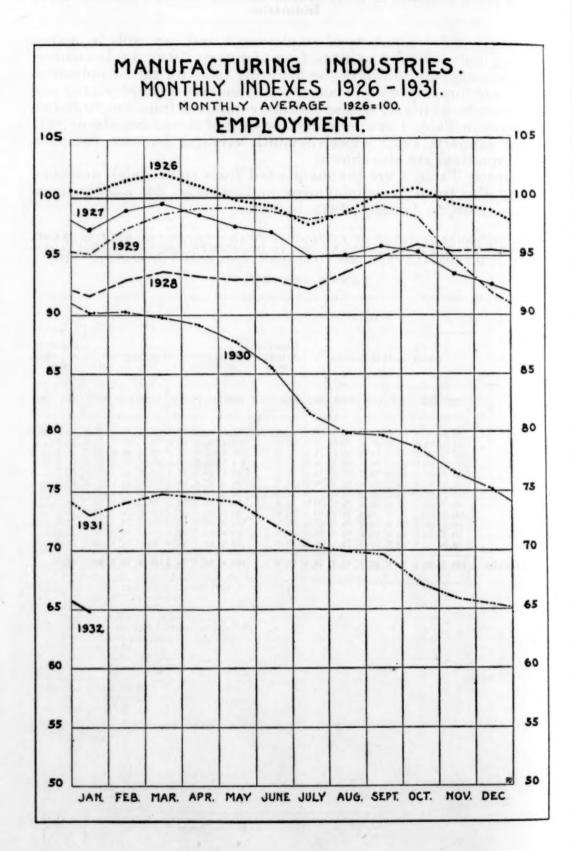
2. 2 2. 4 0. 5 7. 4 0. 1 0. 2 3. 2

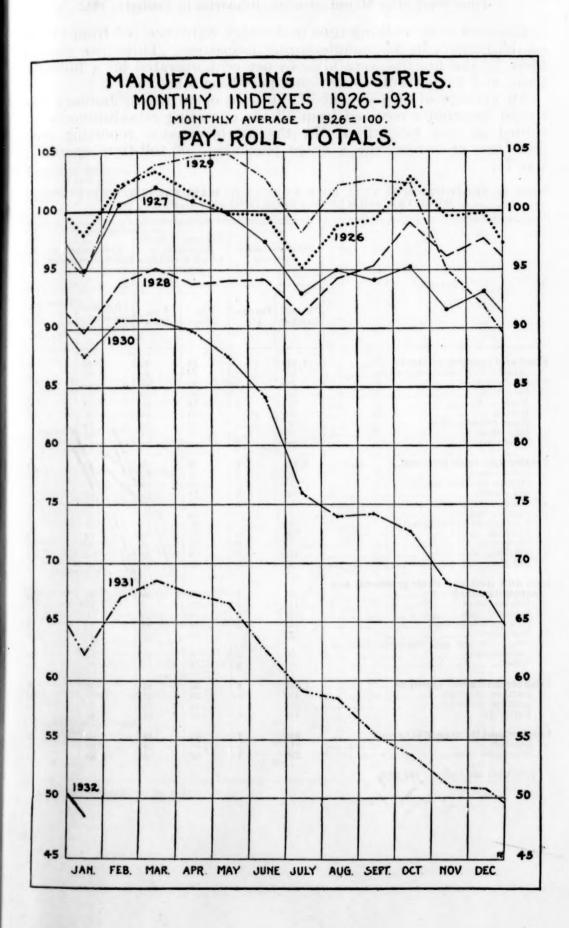
1.4

TABLE 3.—GENERAL INDEXES OF EMPLOYMENT AND TOTAL PAY ROLL IN **MANU-FACTURING** INDUSTRIES, JANUARY, 1926, TO DECEMBER, 1931, BASED ON 54 INDUSTRIES, AND FROM JANUARY, 1931, TO JANUARY, 1932, BASED ON 89 INDUSTRIES

[12-month average, 1926=100]

		Employment								Total pay roll						
Month								ed on idus- ies	Based on 54 industries					Based on 89 indus- tries		
	1926	1927	1928	1929	1930	1931	1931	1932	1926	1927	1928	1929	1930	1931	1931	1932
JanuaryFebruary	100. 4 101. 5	97. 3 99. 0		95. 2 97. 4	90, 2	73. 1 74. 1	74. 6 75. 3	64, 8		94. 9 100. 6		95. 5 101. 8	87. 6 90. 7			48. 6
March April May	102. 0 101. 0 99. 8	99. 5	93. 7 93. 3	98. 6	89. 8 89. 1 87. 7		75. 9		103. 4	102. 0 100. 8 99. 8	95. 2 93. 8	103. 9 104. 6 104. 8	90. 8	68. 5 67. 4	69. 6 68. 5	
June July	99. 3 97. 7	97. 0 95. 0	93. 1 92. 2	98. 8 98. 2	85. 5 81. 6	72. 2 70. 4	73. 4 71. 7		99. 7 95. 2	97. 4 93. 0	94. 2 91. 2	102. 8 98. 2	84. 1 75. 9	62. 5 59. 1	63. 8 60. 3	
August September October	98. 7 100. 3 100. 7	95. 1 95. 8 95. 3		arch of	79. 9 79. 7 78. 6	70. 0 69. 6 67. 3			98. 7 99. 3 102. 9	94. 1	95. 4	102. 1 102. 6 102. 3	73. 9 74. 2 72. 7		59. 7 56. 7 55. 3	
November December	99. 5 98. 9			94. 8 91. 9	76. 5 75. 1	65. 4 65. 3	67. 1 66. 7		99. 6 99. 8				68. 3 67. 4	51. 0 50. 9	52. 5 52. 2	
Average	100, 0	96, 4	93, 8	97. 5	83, 7	70, 9	72, 2		100, 0	96, 5	94. 5	100, 4	80, 3	60, 2	61, 5	





### Time Worked in Manufacturing Industries in January, 1932

REPORTS as to working time in January were received from 11,762 establishments in 68 manufacturing industries. Three per cent of these establishments were idle, 48 per cent operated on a full-time basis, and 49 per cent worked on a part-time schedule.

An average of 86 per cent of full-time operation in January was shown by reports received from all the operating establishments included in this tabulation. In the establishments reporting only part-time operation, the average percentage of full-time operation was 73.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JANUARY, 1932

		shments	Per cent lishme which en work	nts in nployees	Average p	
Industry	Total number	Per cent idle	Full time	Part time	All operating establishments	Establish- ments operating part time
Food and kindred products	1, 930	(1)	72	28	94	75
Slaughtering and meat packing	167	********	79	21	98	89
Confectionery	260	(1)	51	. 48	89	77
Ice cream	238		63	37	95	86
Flour	351	1	74	26	92	71
Baking		(1)	86	14	97	81
Sugar refining, cane	11		18	82	79	74
Beet sugar	44		73	27	95	83
Beverages	249	1	65	34	91	73
Textiles and their products	1,975	4	59	37	91	7
Cotton goods	501	2	53	45	87	7:
Hosiery and knit goods	316	3	59	39	91	7
Silk goods	236	6	72	22	96	8
Woolen and worsted goods	166	3	60	37	90	7.
Carpets and rugs	24		29	71	80	7
Dyeing and finishing textiles	124		47	53	88	7
Clothing, men's	228	8	56	36	94	7
Shirts and collars	77	9	51	40	92	8
Clothing, women's	218	9	72	20	94	7:
Millinery and lace goods	85	1	68	31	93	7
Iron and steel and their products, not					1881	10
including machinery	579	5	15	80	71	6
Iron and steel	138	7	24	70	75	6
Cast-iron pipe	40	10	10	80	60	5
Structural-iron work	145	3	14	83	76	7
Steam fittings and hot-water heating	53		23	77	77	7
apparatus	96	2	3	95	61	5
Stoves	107	8	14	79	71	60
Lumber and allied products	1,066	4	31	65	79	7
Lumber, sawmills	450	5	28	67	78	6
Lumber, millworkFurniture	281 335	1 4	22 42	76 54	77 83	70
Leather and its manufactures				-	86	7
	350 114	2	43 45	<b>55</b> 54		7
Boots and shoes	236	3	42	56	88 85	7

<sup>1</sup> Less than one-half of 1 per cent.

TABLE 4.—PROPORTION OF FULL TIME WORKED IN MANUFACTURING INDUSTRIES BY ESTABLISHMENTS REPORTING IN JANUARY, 1932—Continued

to a employment and		ishments orting	Per cent lishme which en work	nts in		per cent of ported by—
Industry	Total number	Per cent idle	Full time	Part time	All operating establishments	Establish- ments operating part time
Paper and printing Paper and pulp Paper boxes Printing, book and job Printing, newspapers and periodicals	294 250 542	(1) 1	50 41 25 41 90	50 58 75 59 10	89 84 82 89 99	78 74 76 81 88
Chemicals and allied products Chemicals Fertilizers Petroleum refining Druggists' preparations Explosives Paints and varnishes Rayon	88 159 68 19 17 296	1 1 1	64 76 67 82 53 59 57 29	23 32 16 47 41 41 71	92 95 93 98 94 82 90 83	77 78 78 89 87 55 75
Stone, clay, and glass products  Cement  Brick, tile, and terra cotta  Pottery  Glass	84 314	16 23 22 4 9	37 65 17 23 72	47 12 61 73 19	80 96 69 72 95	63 74 61 63 76
Nonferrous metals and their products. Stamped and enameled ware Brass, bronze, and copper products Jewelry	341 71 136 134	(1)	35 21 31 46	64 79 68 53	82 78 81 84	72 72 73 70
Tobacco manufactures.  Chewing and smoking tobacco and snuff.  Cigars and cigarettes	192 25 167	<del>-</del> 7	25 52 21	69 48 72	81 92 79	74 84 73
Transportation equipment Automobiles Aircraft Cars, electric and steam railroad Locomotives Shipbuilding	315 166 33 25 12 79	1 6	30 70 12 50 73	53 69 24 88 50 23	86 81 95 77 84 95	74 73 77 74 67 78
Rubber products Rubber tires and inner tubes Rubber boots and shoes Rubber goods, other	128 34 7 87		34 18 14 41	66 82 86 59	84 80 82 85	75 76 79 75
Machinery, not including transporta- tion equipment  Agricultural implements  Electrical machinery, apparatus, and	1, <b>354</b> 66	1 2	<b>30</b> 30	<b>69</b> 68	78 81	68 72
supplies. Engines and water wheels. Cash registers and calculating machines. Foundry and machine-shop products. Machine tools Textile machinery and parts. Typewriters and supplies. Radio.	179 61 40 804 129 31 13 31	3 1 1	22 25 60 30 19 39 46 71	78 72 40 68 81 61 54 29	80 73 88 76 74 86 78 96	75 64 69 66 69 78 58
Railroad repair shops Electric railroad Steam railroad	787 364 423	(1)	50 70 33	49 30 66	91 96 86	81 85 79
Total	11, 762	3	48	49	86	73

<sup>1</sup> Less than one-half of 1 per cent.

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# Employment in Nonmanufacturing Industries in January, 1932

IN THE following table are presented employment and pay-roll data for 14 groups of nonmanufacturing industries, the totals of which also appear in the summary table of employment and total pay roll.

With one exception, each group showed decreases in both employment and earnings from December, 1931, to January, 1932, and from January, 1931, to January, 1932. The exception was an increase in employment of 0.1 per cent in hotels over the month interval.

TABLE 1.—COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL NONMANUFACTURING ESTABLISHMENTS IN DECEMBER, 1931, AND JANUARY, 1932, PER CENT OF CHANGE OVER A YEAR INTERVAL, AND INDEX NUMBERS OF EMPLOYMENT AND TOTAL PAY ROLL, JANUARY, 1932.

		Em	ployme	nt	Total	pay ro	oll	Index	num-
	Estab-			ent of			ent of	bers J: 1932 (8 1929=	anuary, verage, =1,00)
Industrial group	ments report- ing in both mos.	Number on pay roll, January, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary, 1931, to Jan- uary, 1932	Amount of pay roll (1 week), January, 1932	De- cem- ber, 1931, to Jan- uary, 1932	Jan- uary, 1931, to Jan- uary, 1932	Employ ment	Total pay roll
Anthracite mining	160 1, 199 239	104, 183 187, 787 28, 465	-4. 5 -0. 5 -3. 8	-15. 9 -14. 0 -27. 8	\$2, 441, 555 2, 827, 087 531, 045	-21. 6 -10. 2 -13. 4	-31. 1 -35. 9 -46. 0	76. 2 80. 8 49. 3	61, 8 47, 0 29, 7
mining. Crude petroleum producing Telephone and telegraph Power, light, and water Electric railroad operation and	618 236 8, 178 3, 383	20, 088 19, 509 293, 708 230, 528	-9.3 -5.6 -0.1 -1.1	-24. 1 -26. 6 -8. 3 -10. 0	334, 354 635, 767 8, 515, 984 7, 186, 307	-18. 1 -15. 4 -3. 8 -3. 1	-40. 1 -35. 0 -7. 5 -10. 3	48. 9 54. 9 83. 0 89. 3	30. 2 46. 3 89. 1 88. 4
maintenance exclusive of car shops	498 2, 457 11, 933 2, 262 783 813 295	133, 361 66, 213 334, 276 140, 772 22, 792 54, 882 9, 404	-0.5 -2.2 -20.6 +0.1 -14.1 -0.7 -3.3	-8.5 -8.6 -6.3 -11.4 -28.4 -6.4 -7.8	3, 997, 021 1, 916, 984 7, 497, 262 2, 157, 811 362, 503 955, 826 192, 024		-13. 2 -15. 3 -12. 8 -18. 8 -31. 0 -11. 9 -15. 2	79. 5 81. 8 84. 3 84. 2 35. 0	74.3 74.1 78.0 73.9 31.8 (1)

<sup>1</sup> Data not available.

## Indexes of Employment and Total Pay Roll for Nonmanufacturing Industries

INDEX numbers of employment and total pay roll for the years 1929, 1930, and 1931, and by months, January, 1931, to January, 1932, for 12 of the 14 nonmanufacturing industries appearing in the preceding table, are shown in Table 2. Index numbers for the laundering and the dyeing and cleaning groups are not presented, as data for the index base year (1929) are not available.

TABLE 2.—INDEXES OF EMPLOYMENT AND TOTAL PAY ROLL FOR NONMANUFACTURING INDUSTRIES, 1929 TO JANUARY, 1932

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Year and month	Anthracit	9	Bituminous coal mining		Metallifer- ous mining	lifer- ning	Quarrying and non- metallic mining		Crude petroleum producing		Telephone and tele- graph		Power, light, and water		Operation and main- tenance of electric railroads 1		Wholesale trade	ale	Retail	<b>.</b> .	Hotels		Canning and pre- serving	ing Page
	Em- ploy- ment	Pay- roll totals	Em- ploy- ment	Pay- roll totals	Em- ploy- ment	Pay- roll totals	Em- 1 ploy- ment t	Pay- 1 roll p	Em- F ploy- 1	Pay- Froil pl	Em- F ploy-	Pay- E roll pl	Em- P ploy- r ment to	Pay- Froil prototals	Em- Pa ploy- re ment to	Pay- E roll pl	Em- ploy- r ment to	Pay- roll totals	Em- P ploy- r ment to	Pay- Eroll pl	Em- P ploy- r ment to	Pay- I roll p	Em- 1 ploy- ment t	Pay- roll totals
1929: Average	100	100	3	8	81	8	8	2	8	8	81	8	8	3	8	8	8	8	3	8	8	8	8	3
1930: Average	93. 4	95. 3	93. 4	81.3	83.2	78.0	84.3	79.3	87.4	86.9	97.8	102.9	103.0	104.3	93.4	93. 5	96.0	95. 9	95.9	96.2	99.2	98.5	103.9	96.1
January February.	88.90 8.90 8.00 8.00	89.3 101.9 71.3	89.98 9.1.88 9.10.80	58.33 88.23	85.55 8 8 8 8 8	55.0 54.6 52.8	486	44.2	2.55 8.25 8.25	73.5	889.5	9.4.0 9.7.0 8.8.0	98.7	98.6	20.00.4	885.6 887.1 88.1	889.5	88.7.5	90.0 87.1 87.8	88.7	0 8 8 20 95 30 95 30 95	93.7	24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	46.1 50.3
April May June	285. 26.35	75.2 76.1 86.7	28.85 24.45	58.6 54.4 52.4	62.9 60.0	51.4 49.3 46.1	75.0 72.0 8.0 8.0	62.6 62.3 60.1	69.8 67.8 65.0	62.3	88.1 87.4 86.9	95.0	97.1 97.6 97.2	98.0	85.58	88.5.8 6.1.8 8.1.8	87.1	27.1	90.1 89.9	888.8	95.9 92.5 91.6	89.9 87.7 85.4	59.6 56.0	55.0 56.0 58.6
July August September	65. 1 67. 3 80. 0	58.47 4.49	8.1.8 40.4	50.5 50.6 6.6	555.50 555.00 555.00	40.5 40.0	71.0 68.9 66.6	57.3 55.1 51.2	62.4	55.2 55.2 25.3 25.3	86.6 85.0 85.0	92.33	25.07	42.8	8 2 2 2 0 8 0 8 8 8	88.5	86.1	83.3 82.1 81.4	88.8	88.88	992.3	883.2	102.2 142.9 180.1	126.7
October. November. December.	86.8 91.1 183.5 179.5 179.8 178.4	91.1 779.5	81.3 81.2	55.2 52.6 3.6 3.6	52.8 51.2	37. 4 35. 1 34. 3	59.3	48.48 36.9	60.4 57.6 58.2	52.0	28.88 1.5.1	91. 6 89. 7 92. 7	92.3	98.2	82.7	279.0	88.7	79.9	80.08	985.6	888.2	73.7	108.1	48.16 36.9
1931: Average	2 80.5	75.4	83.2	57.5	59.1	44.8	67.4	53. 4	65. 7	61.7	86.6	93. 7	95.6	96. 7	84.7	83.4	9.98	83.6	89.4	86.6	92.0	85.4	80.9	65.6
January 1932	76.2	61.5	80.8	47.0	49.3	29.7	48.9	30.2	0 74	46.5	88	89.1	80.3	8	79.5	74.3	81.8	74.1	8.48	78.0	24.9	130	35.0	31.8

1 Not including electric-railroad car building and repairing; see transportation equipment and electric repair shop groups, manufacturing industries, Table 1.

2 Revised.

# Trend of Employment in January, 1932, by States

IN THE following table are shown the fluctuations in employment and earnings in January, 1932, as compared with December, 1931, in certain industrial groups, by States. These tabulations have been prepared from information secured directly from reporting establishments and from data supplied by cooperating State agencies. fluctuations in employment and earnings over the month interval in the combined total of the 15 industrial groups included in this monthly survey are presented, together with the changes in the manufacturing, public utility, hotel, wholesale trade, retail trade, bituminous coal mining, crude petroleum producing, quarrying and nonmetallic mining, metalliferous mining, laundries, and dyeing and cleaning groups. In presenting data concerning the public utility group, the totals of the telephone and telegraph, water-light-power, and electric railroad operation groups have been combined and are presented as one group in this State compilation. Due to the extreme seasonal fluctuations in the canning and preserving industry, and the fact that during certain months the activity in this industry in a number of States is negligible, data for this industry are not presented separately. The number of employees and the amount of weekly earnings in December and January as reported by identical establishments in this industry are included, however, in the tabulation of "all groups" by States.

As the anthracite mining industry is confined entirely to the State of Pennsylvania, the changes reported in this industry in the summary In Ick

table are the fluctuations in this industry by State total.

Where the identity of any reporting company would be disclosed by the publication of a State total for any industrial group, figures for the group do not appear in the separate industrial group tabulation, but have been included in the State totals for "all groups." Data are not presented for any industrial group where the representation covers less than three establishments.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL ESTABLISHMENTS IN DECEMBER, 1931, AND JANUARY, 1932, BY STATES, FOR 11 INDUSTRIAL GROUPS AND TOTAL OF GROUPS COMBINED

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

		Tot	al—all g	roups			Ma	nufactu	iring	
State	Number of establishments	Number on pay roll Jan- uary, 1932	Per cent of change		Per cent of change	Num- ber of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of	Amount of pay roll (1 week) January, 1932	Per cent of change
Alabama	442	48, 742 14, 442 10, 981 203, 568 25, 986	-3.0 -2.6 -6.4 -6.3 -15.3	\$636, 629 230, 517 262, 096 5, 316, 833 615, 188	-6. 2 -5. 2 -7. 2 -6. 8 -15. 7	196 181 58 1,131 121	31, 729 8, 896 2, 134 119, 504 8, 046	-2.8 -2.9 -6.2 -3.4 -29.7	\$415, 781 120, 441 51, 162 2, 994, 499 186, 410	-5. 7 -5. 8 -10. 4 -6. 4 -31. 4
Connecticut Delaware Florida Georgia Idaho	122 534	126, 108 7, 887 25, 560 60, 029 7, 061	-4. 2 -0. 7 +13. 3 -0. 8 -14. 1	2, 516, 897 170, 841 459, 952 852, 624 131, 936	-7.1 +0.1 +5.9 -4.0 -20.9	572 48 132 257 38	106, 462 5, 415 14, 355 46, 781 3, 564	-4. 2 +5. 7 +12. 9 -0. 7 -24. 4	1, 967, 964 116, 528 223, 851 533, 950 59, 497	-8.0 +4.4 +9.1 -6.4 -34.4
Illinois Indiana Iowa Kansas Kentucky	1, 239 1, 150 617	289, 105 125, 254 46, 006 28, 327 57, 971	-2.8 -3.6 -2.7 -0.3 -3.6	6, 964, 705 2, 646, 407 961, 433 619, 462 926, 579	-2.7 -6.5 -8.4 -1.9 -8.5	1,056 574 449 167 158	182, 480 92, 330 25, 347 15, 481 18, 139	-3. 1 -2. 3 -2. 1 +0. 3 -3. 7	3, 955, 425 1, 915, 571 503, 460 350, 559 307, 735	-3. 3 -5. 8 -8. 8 -1. 1 -4. 4
Louisiana Maine Maryland Massachusetts Michigan	508 1 869 7, 357	27, 679 37, 180 80, 205 529,180 296, 240	-7.5 -1.0 -4.4 -4.7 +1.2	454, 869 714, 693 1, 599, 688 7, 683, 202 6, 810, 575	-9.6 -4.8 -6.0 -6.2 -3.3	162 172 506 1,051 446	15, 925 30, 857 58, 950 150, 499 218, 754	-6.8 +0.3 -3.0 -0.7 +5.0	233, 816 558, 562 1, 100, 619 2, 940, 823 5, 197, 043	-10. 2 -4. 4 -6. 6 -2. 2 -0. 5
Minnesota	386 1, 102 250	61, 477 10, 411 107, 208 7, 803 22, 403	-6.5 -3.5 -2.0 -5.0 -12.4	1, 408, 711 134, 389 2, 358, 607 201, 472 534, 589	-8.4 -10.2 -5.0 -11.9 -10.3	263 76 502 46 122	30, 012 6, 418 59, 499 2, 882 10, 884	-5.3 -3.3 +0.6 -7.0 -16.8	653, 096 66, 008 1, 206, 799 63, 866 263, 407	-10: 2 -11: 8 -2: 9 -10: 6 -11: 9
New Hampshire New Jersey New Mexico Nevada New York	378 1, 450 122 84 3, 128	25, 073 200, 194 4, 240 1, 165 508, 860	-5.2 -4.1 +0.1 +1.4 -5.5	452, 862 4, 898, 782 78, 185 34, 001 13, 037, 634	-3.5 -5.4 -11.3 -2.5 -7.2	136 2 756 22 12 4 1, 692	21, 389 183, 584 462 195 341, 384	+1.3	357, 124 4, 411, 076 6, 621 6, 856 8, 313, 506	-2.8 -2.8 -2.8 -2.8 -5.6
North Carolina North Dakota Ohio Oklahoma Oregon	347	83, 538 3, 492 344, 409 22, 692 25, 510	-0.2 -2.6 -3.5 -5.4 -8.8	1, 077, 747 82, 122 7, 117, 117 514, 975 552, 476	-4.4 -6.5 -7.0 -9.6 -11.0	441 56 1,437 95 176	77, 287 1, 088 250, 736 8, 334 14, 043	-0.3 -4.7 -1.3 -0.9 -11.0	971, 136 29, 187 5, 097, 195 181, 656 261, 142	-4.3 -10.3 -5.8 -6.2 -16.3
Pennsylvania	500 392 216	610, 944 54, 347 47, 040 5, 555 60, 959	-4.5 -2.0 -0.6 -3.2 -5.4	12, 153, 190 1, 134, 942 531, 370 138, 516 930, 318	-12.0 -2.1 +0.1 -5.4 -8.1	1, 868 271 175 45 264	333, 840 42, 744 42, 938 2, 003 43, 083	-4.6 -0.4 -(5) -0.1 -4.1	5, 952, 038 838, 650 458, 629 42, 729 628, 338	-10. 8 -1. 3 +0. 8 -4. 7 -6. 8
Texas Utah Vermont Virginia	505 239 353 899	58, 844 13, 212 9, 509 65, 804	-4. 2 -6. 1 -6. 4 -3. 7	1, 464, 306 283, 217 201, 010 1, 124, 388	-5.7 -11.9 -8.5 -5.3	300 60 127 252	37,003 3,154 5,215 47,120	-4.0 -22.3 -9.6 -2.0	955, 914 58, 121 104, 885 778, 733	-6.6 -31.9 -13.7 -3.7
Washington West Virginia Wisconsin Wyoming	803 684 1, 171 135	46, 512 83, 145 30, 859 5, 794	-8.3 -1.0 -11.6 -7.3	1, 043, 809 1, 454, 107 674, 808 152, 862	-10.5 -8.6 -12.3 -18.2	248 185 836 23	23, 414 32, 088 1, 456	-5.5 -3.3 -2.6 -22.6	449, 213 644, 256 46, 290	-10.8 -9.6 -9.7 -12.4

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Includes building construction.
 Includes laundries.
 No change.
 Includes laundering and cleaning.
 Less than one-tenth of 1 per cent.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL ESTABLISH.
MENTS IN DECEMBER, 1931, AND JANUARY, 1932, BY STATES, FOR 11 INDUSTRIAL
GROUPS AND TOTAL OF GROUPS COMBINED—Continued

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[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

		W	nolesale	trade			R	etail tra	ade	
State	Num- ber of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of change	Amount of pay roll (1 week) January, 1932	Per cent of change		Number on pay roll Jan- uary, 1932	Per cent of	Amount of pay roll (1 week) January, 1932	Per cent of change
AlabamaArkansasArizonaCaliforniaColorado	16	554	-2.8	\$16, 501	-5.8	32	2, 546	-15. 4	\$42, 453	-12.9
	18	455	-0.4	13, 482	-3.2	136	1, 532	-7. 1	28, 165	-9.1
	17	138	-2.8	3, 681	-3.1	179	1, 262	-21. 4	25, 610	-4.2
	55	3, 769	-1.4	119, 978	-2.7	95	28, 757	-23. 9	654, 924	-18.8
	21	640	+1.4	21, 327	+0.8	37	3, 692	-23. 1	76, 621	-17.9
Connecticut Delaware Florida Georgia Idaho	55	1, 214	+1.6	36, 997	-0.8	101	4, 722	-14.7	101, 971	-9.6
	9	108	+5.9	2, 281	-4.0	13	143	-28.5	2, 628	-16.5
	38	590	-1.3	15, 393	-7.6	76	1, 286	-0.2	29, 750	-6.2
	31	369	-3.1	10, 694	-4.6	35	2, 095	-19.9	36, 833	-15.6
	8	121	-3.2	3, 488	-9.3	24	630	-3.4	12, 436	-5.0
IllinoisIndianaIowaKansasKentucky		868 1, 180 1, 114 627 511	-12.7 +0.7 -1.9 -0.8 +5.4	23, 247 33, 272 33, 192 18, 432 11, 026	-10.2 -5.5 -5.8 +5.3 -3.4	54 243 113 30 198	18, \$17 6, 528 3, 036 1, 285 2, 010	-6.3 -19.6 -20.9 -17.3 -9.7	471, 897 131, 484 63, 600 25, 403 38, 464	-5.5 -14.8 -31.0 -8.0 -9.2
Louisiana	13 30 693	800 329 806 14, 171 1, 296	-0.6 -3.8 -1.4 -6.3 +1.9	18, 123 8, 595 19, 872 425, 430 42, 392	-4.1 -5.1 -1.5 -7.3 -3.2	53 63 43 5, 947 428	3, 021 1, 128 5, 101 60, 259 11, 871	-22.3 -8.3 -23.6 -12.1 -25.9	49, 197 23, 885 93, 055 1, 357, 082 281, 797	-18.1 -8.5 18.8 12.0 -22.1
Minnesota	5	4, 052	-1.9	117, 981	-5.6	344	7, 609	-20.5	152, 178	-14.3
Mississippi		134	+0.8	2, 936	+0.6	71	427	-20.5	5, 840	-18.0
Missouri		5, 142	-2.1	133, 078	-3.0	136	6, 196	-26.5	130, 536	-23.0
Montana		218	+0.9	8, 006	+0.8	20	345	-14.2	7, 948	-7.9
Nebraska		887	-2.5	26, 228	-3.8	90	1, 358	-26.1	27, 928	-24.4
New Hampshire New Jersey New Mexico Nevada New York	14 30 6	172 675 108 2, 281	-2.3 -4.8 -12.9	5, 120 21, 269 3, 931 75, 960	-1.7 -2.1 -4.4	49 412 10 .3 184	520 7, 892 95 22 47, 070	-22.7 -31.4 -5.9 -8.3 -25.9	11, 208 191, 008 2, 449 485 1, 201, 262	$\begin{array}{r} -12.4 \\ -25.6 \\ -10.1 \\ -14.3 \\ -22.5 \end{array}$
North Carolina	21	478	-5. 2	12, 468	-4.9	438	1, 862	-2. 2	29, 902	-10.3
North Dakota	15	191	-2. 6	6, 084	-8.2	39	384	-15. 4	7, 106	-8.5
Ohio	147	3, 798	-0. 5	107, 973	-3.4	674	26, 321	-25. 6	557, 293	-22.0
Oklahoma	37	640	-3. 6	17, 164	-6.5	45	1, 185	-12. 9	22, 296	-11.9
Oregon	42	1, 035	-5. 0	29, 728	-5.4	255	2, 321	-13. 3	53, 773	-6.3
Pennsylvania	137	3, 445	-0.7	96, 007	-3.4	588	27, 782	-17.9	603, 026	-15.2
	38	930	-13.8	23, 043	-8.4	115	5, 014	-13.3	115, 240	-9.3
	19	247	-0.4	5, 986	-4.0	90	694	-28.5	10, 533	-12.5
	6	98	-3.0	3, 085	-6.0	18	253	-18.4	4, 974	-11.0
	32	728	-7.4	16, 382	-4.8	69	3, 530	-27.1	60, 291	-27.7
TexasUtahVermontVirginia	65	2,657	+2.7	77, 027	+1.7	59	6, 967	-9.7	141, 646	-9.4
	13	440	-0.2	11, 709	-8.5	23	1, 053	-6.1	15, 452	-8.4
	5	111	-0.9	3, 053	-0.3	35	326	-5.8	7, 118	-5.0
	33	827	-1.8	21, 121	-4.9	371	2, 878	-22.8	56, 460	-18.0
Washington West Virginia Wisconsin Wyoming	85	2, 087	-1.5	64, 515	-3.6	140	5, 726	-27.5	116, 388	-20.1
	37	612	-3.9	19, 916	-2.2	50	982	-18.3	19, 511	-12.3
	45	1, 918	-2.4	46, 612	-6.8	59	8, 504	-24.9	140, 400	-23.4
	9	46	(1)	1, 586	-9.4	15	156	-4.9	4, 406	-6.1

<sup>3</sup> No change.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL ESTABLISH-MENTS IN DECEMBER, 1931, AND JANUARY, 1932, BY STATES, FOR 11 INDUSTRIAL GROUPS AND TOTAL OF GROUPS COMBINED—Continued

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

	Qu	arrying a	nd nonn	netallic mir	ing		Metal	liferous	mining	
State	Num- ber of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of change	Amount of pay roll (1 week) January, 1932	Per cent of change	Num- ber of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of	Amount of pay roll (1 week) January, 1932	cent of
Alabama	6	421	-2.1	\$5, 035	-28.0					
Arkansas	8	201	+45.7	2, 546	+17.6	16	4, 976	-6.3	\$100 000	
Arizona California Colorado	25	654	-16.6	13, 143	-24.3	17 12	1, 563 589	-6. 5 -4. 9 -5. 6	\$123, 092 39, 969 16, 663	$ \begin{array}{r r} -9.5 \\ -11.3 \\ -10.1 \end{array} $
Connecticut	7	149	+2.8	2, 278	-32.9					
Delaware										
FloridaGeorgia	7 12	607 537	+3.9 $-12.5$	7, 681 5, 747	$+3.6 \\ -7.4$					
Idaho		331	-12.0	0, (2)	-7.4	8	1, 821	(3)	39, 089	-4. 2
Illinois	28	463	-22,3	8, 597	-15.6	3				
Indiana	37	1, 620	+4.9	30, 475	-3.7					
Iowa	15	209	+13.0	3, 287	-2.1					
Kansas Kentucky	14 26	468 470	$\begin{array}{c c} +1.3 \\ -29.6 \end{array}$	10, 356 3, 962	+1.3 $-38.3$	9	218	+45.3	3, 978	+51.2
Louisiana	3 5	349	+12.6	4, 616	+10.5					
Maine Maryland	19	159 428	$-44.0 \\ -5.7$	5, 225 6, 264	-34.9 $-17.2$					
Massachusetts										
Michigan	20	354	-5.9	5, 696	-19.1	41	8, 703	-4.7	92, 374	-29.9
Minnesota Mississippi	5	84	-21.5	1, 124	-44.8	33	1, 373	-13.5	26, 023	-24.1
Missouri	17	285	+3.3	4, 028	-9.5	16	2,008	+7.6	30, 656	+4.9
Montana Nebraska	40	35	-61.5	374	-62.7	14	127	-13.0	3, 062	-4.6
New Hampshire New Jersey	13	100 48	-40.8 -20.0	2, 094 1, 278	-45, 2 -33, 2	3	113	-3.4	2, 272	-19. 1
New Mexico Nevada						16	374	+8.1	10, 341	-0.2
New York	47	1, 102	-38.7	24, 646	-50.3					-0.2
North Carolina	.9	190	-18.5	2, 359	-19.3					
North Dakota	56	1,609	-3, 5	29, 240	-20.9					
Oklahoma	90	1,000	-3. 3	29, 240	-20. 8	25	376	-33, 1	8, 077	-32.3
Oregon						3	45	-22.4	877	-48.3
Pennsylvania	50	2, 565	-1.6	25, 856	-18.9	-				
Rhode Island		2,000	1.0	20,000	10, 0					
South Carolina	6	115	-34.7	635	-24.5					
Tennessee	18	1, 126	-8.5	16, 759	-3.3	4	302	-1.0	5, 118	+0.7
Texas	8	704	-01							
Utah	0	704	-0.1	16, 306	-6.0	8	2, 421	+1.7	51, 052	-7.8
Vermont	39	2, 314	-2.6	52, 733	+0.3			1 2.	01,002	
Virginia	18	888	-20.4	9, 680	-31.8					
Washington	7	111	+8.8	2, 095	-0.4	3	70	-32.0	1, 246	-46.4
West Virginia	6	469	-2.1	5, 070	-11.0			02.0	1, 210	40. 4
Wisconsin Wyoming							767	-2.7	11,629	-20.6

No change.

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1.3 3.5 2.0 1.9

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COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL ESTABLISH.
MENTS IN DECEMBER, 1931, AND JANUARY, 1932, BY STATES, FOR 11 INDUSTRIAL
GROUPS AND TOTAL OF GROUPS COMBINED—Continued

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[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

		Bitumi	inous coa	l mining			Crude pe	troleum	producing	ζ
State	Number of establishments	Number on pay roll Jan- uary, 1932	Per cent of change	Amount of pay roll (1 week) January, 1932	Per cent of change		Number on pay roll Jan- uary, 1932	Per cent of	Amount of pay roll (1 week) January, 1932	Per cent of change
AlabamaArkansas	6	8, 693 545	-0.9 -6.8	\$80, 945 7, 334	-5.5 -10.8	6	165	-4.1	\$3, 938	-5, 3
Arizona California Colorado		4, 383	-0.5	101, 983	+0.1	39	5,070	-1.8	173, 055	-5.3
				- 1						
Connecticut Delaware										
Fiorida										
Georgia										
Idaho										
IllinoisIndiana	47	8, 188 6, 215	+0.9	172, 023 148, 146	+7.1 -9.2	7	191	-0.5	3, 954	-1.3
IowaKansas	14	2, 399	$^{+2.6}_{-2.3}$	58, 865 22, 938	+9.1 $-10.5$	24	817	+0.5	20, 419	-0.3
Kentucky Louisiana		25, 806	-3.9	334, 888		7	143	-0.7	4 019	AE P
Maine			******						-,012	10. 0
Maine Maryland Massachusetts Michigan	14	1,243	-2.8	18, 273	-10.0				********	
midingan										
Minnesota										
Mississippi										
Missouri	18	1, 232	+2.9	28, 190	+6.2					
Mississippi Missouri Montana Nebraska	10	987	+11.1	24 417	-17.5	5	43	+2.4	1, 249	-2.5
Now Hampshire										
New Jersey	19	9 000	121	20 001	14.0			01.0		
New Jersey New Mexico Nevada New York	10	2, 092	To. 1	30, 021	-14. 2	a	156	-31.6	878 4, 496	-39.3 $-1.1$
North Carolina			1		1	1	100	-12, 4	4, 490	-1, 1
North Dakota										
OhioOklahomaOregon	62	12, 388 600	$+2.3 \\ -39.4$		-13.3 -41.3	5 53	58 3, 646	-1.7 -4.5	921 99, 569	-8.4 -8.5
Pennsylvania	386	54, 487	-0.8	772, 193	-10.3	20	388	+24	10, 243	-5.8
Rhode Island										
South Dakota										
South Dakota Tennessee	16	3, 061	-1.7	33, 794	-5.8					
Texas	13	2, 536	+4.2	72, 943	-1.3	43	8, 193	-9.2	298, 138	-18.9
Vermont Virginia	26	4, 510	-2.3	49, 544	-12,3		*********			
		,,,,,,								
Washington West Virginia Wisconsin	9 247	1, 487 40, 620	-1.1 +1.2		-23, 8 -10, 5	7	384	-4.7	9, 031	-9.5
Wyoming	25	3, 387	-0.1	81, 902	-23.7	4	135	-6.2	4, 224	-3.0

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL ESTABLISH-MENTS IN DECEMBER, 1931, AND JANUARY, 1932, BY STATES, FOR 11 INDUSTRIAL GROUPS AND TOTAL OF GROUPS COMBINED—Continued

[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken from reports issued by cooperating State organizations]

	-	Pu	blie uti	lities				Hotels		
State	Num- ber of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of change		Per cent of change		Number on pay roll Jan- uary, 1932	cent of	Amount of pay roll (1 week) January, 1932	Per cent of change
AlabamaArkansasArizonaCaliforniaColorado	121 50 64 36 198	2, 205 1, 492 1, 669 46, 388 6, 018	$ \begin{array}{r} -0.2 \\ -0.8 \\ +3.2 \\ -0.8 \\ -1.7 \end{array} $	\$46, 998 40, 424 44, 824 1, 440, 204 166, 151	-6.5 -3.1 -1.3 -1.5 -5.4	25 17 14 257 31	1, 205 897 510 11, 760 1, 229	-3. 2 -0. 4 +3. 4 -0. 6 -1. 7	\$12, 364 11, 312 8, 577 213, 273 19, 673	-5.2 -0.8 +3.6 -1.8 -2.0
Connecticut Delaware Florida Georgia Idaho	135 28 201 182 53	10, 887 1, 086 4, 535 8, 120 602	$ \begin{array}{r} -0.7 \\ -6.6 \\ +0.2 \\ +6.7 \\ -2.0 \end{array} $	359, 119 31, 506 132, 672 243, 925 12, 551	-1.8 -5.4 -4.7 +4.3 -7.3	20 6 58 24 13	1,008 271 2,564 1,323 247	$ \begin{array}{r} -3.4 \\ -0.4 \\ +92.6 \\ -5.4 \\ +10.3 \end{array} $	14, 364 3, 745 35, 516 13, 236 3, 470	-9. 8 -0. 7 +69. 0 -10. 8 -3. 6
IllinoisIndianaIowa KansasKentucky	55 132 441 292 310	67, 422 11, 252 10, 680 6, 642 7, 709	$ \begin{array}{r} -1.5 \\ +0.1 \\ -0.1 \\ +2.2 \\ -0.1 \end{array} $	2, 104, 713 299, 091 261, 992 151, 442 186, 359	-1.3 -2.2 -4.2 -3.2 -4.2	64 59 35 32	8, 953 2, 845 2, 694 933 1, 821	+0.4 -0.5 +4.0 -4.3	162, 584 36, 890 29, 726 10, 557 22, 642	-2.8 -1.4 -0.1 -2.2 +3.2
Louisiana Maine Maryland Massachusetts Michigan		4, 824 3, 252 8, 523 49, 310 25, 667	-0.6 -3.5 -2.0 -1.1 +0.3	116, 813 95, 674 271, 698 1, 571, 441 790, 447	-4.3 -3.6 +2.4 -1,8 -1.6	20 7 24 92 74	2, 102 540 1, 402 5, 343 4, 879	-0.7 +3.8 -1.2 -2.6 +3.6	25, 213 8, 427 19, 362 86, 147 76, 161	-3.3 +4.3 -2.7 -1.6 +1.4
Minnesota Mississippi Missouri Montana Nebraska	198	13, 738 2, 405 24, 225 2, 659 6, 471	-1. 2 -0. 8 -1. 4 -6. 8 -4. 8	387, 146 49, 959 699, 999 82, 964 176, 272	-2.9 -9.8 -5.7 -13.6 -7.1	63 22 83 17 36	3, 292 662 4, 845 274 1, 723	-2.5 +1.2 -2.0 -2.1 -6.1	47, 606 6, 054 65, 007 4, 661 22, 976	-2.4 -0.8 -4.3 -4.3 -3.7
New Hampshire New Jersey New Mexico Nevada New York	145 269 53 40 17	2, 448 24, 431 425 384 5, 974	-0.9 -0.5 -6.8 (*) -1.1	70, 400 802, 966 9, 646 11, 968 214, 043	-3.8 -3.7 -5.6 -2.2 -1.3	8 55 9 7 151	185 3, 413 247 109 23, 027	$ \begin{array}{r} -3.1 \\ -0.9 \\ -2.4 \\ \stackrel{(3)}{-2.4} \end{array} $	2, 551 52, 952 3, 254 1, 982 407, 030	+1. 4 -2. 7 -2. 6 -11. 6 -5. 4
North Carolina North Dakota Ohio Oklahoma Oregon	77 171 481 233 188	2, 102 1, 327 32, 840 6, 532 6, 105	+0. 2 +3. 5 -0. 5 -3. 4 -1. 3	43, 355 33, 238 895, 603 159, 736 174, 686	-5.8 -2.1 -4.1 -9.3 -4.5	28 21 163 38 43	1, 310 402 9, 452 908 1, 152	+13. 1 -2. 0 -1. 1 -1. 1 -4. 9	14, 852 4, 644 137, 084 9, 257 18, 613	+8.4 -8.6 -3.8 -8.3 -7.9
Pennsylvania Rhode Island South Carolina South Dakota Tennessee	682 36 70 127 251	55, 938 4, 013 1, 760 1, 186 5, 408	-0.5 -0.1 -0.8 -8.4 -0.7	1, 697, 051 127, 187 43, 551 31, 144 128, 474	$ \begin{array}{r} -3.1 \\ +0.6 \\ -0.6 \\ -11.6 \\ -5.8 \end{array} $	141 12 15 15 41	9, 739 243 486 302 2, 590	$     \begin{array}{r}       -0.5 \\       -1.2 \\       +29.6 \\       -5.3 \\       -1.3     \end{array} $	143, 258 3, 748 4, 819 4, 240 26, 711	-2.5 +8.4 +36.1 -2.4 -3.8
Texas Utah Vermont Virginia Washington	16 68 125 136 206	7, 987 1, 981 1, 091 6, 461 10, 511	-4.4 +0.2 +0.3 -0.6 +0.2	226, 637 46, 195 27, 414 167, 258 325, 783	-5.5 -4.2 -4 0 -3.3 -4.3	57 17 16 28 64	5,576 565 381 1,817 2,297	+1.0 -6.9 -2.3 -5.9 -(8)	46,776 9,136 4,710 23,704 33,603	-0. 4 -1. 6 -8. 9 -4. 2 -3. 8
West Virginia Wisconsin Wyoming	112 48 47	6, 634 11, 953 462	+0.7 -1.9 -1.5	180, 873 362, 807 11, 698	-1.6 -6.6 -9.5	18 6 43 10	683 1, 402 136	-3.0 -4.4 -2.9	8, 562 2, 465	-4.4

No change.
 Less than one-tenth of 1 per cent.
 Includes restaurants.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN IDENTICAL ESTABLISH.
MENTS IN DECEMBER, 1931, AND JANUARY, 1932, BY STATES, FOR 11 INDUSTRIAL
GROUPS AND TOTAL OF GROUPS COMBINED—Continued

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[Figures in italics are not compiled by the Bureau of Labor Statistics, but are taken' from reports issued by cooperating State organizations]

		]	Laundri	ies			Dyein	g and c	leaning	
State	Number of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of change		Per cent of change	Num- ber of estab- lish- ments	Number on pay roll Jan- uary, 1932	Per cent of	Amount of pay roll (1 week) January, 1932	cent
Alabama	6 12	675 367	-2.9 -2.1	\$8, 197	-1.6 -2.2	5	203	+0.5	<b>\$2,</b> 631	-0.
Arizona	4	240	$\frac{-z.1}{+2.6}$	4, 305 4, 067	-z.z + 2.0					
California	7 61	5, 150	-0.8	107, 228	-2.2					
Colorado	11	908	-1.6	14, 660	-1.4	12	149	-3.2	3, 076	-3.
Connecticut	27 5	1, 391 439	$-0.1 \\ +0.7$	27, 231	-1.6	10	263	-5.4	6,742	-4.
deorgia	11	541	-4.2	5, 314 5, 925	+0.9	4	131	-6.4	1,706	-13.
llinois ndiana	7 23 21	1, 662 1, 566	-0.1 + 1.6	28, 652 23, 591	-0.6 -5.2	6	117	-6.4	2, 185	6
owa	4	236	-3.7	4, 047	-2.8					
Kansas	9 21	303	-1.9	4, 536	-4.0		000	104	4 1/0	
Kentucky Maine	19	975 350	-0.4 $-1.7$	13, 695 5, 477	-2.2 + 2.3	6	269	+0.4	4, 146	-0
Maryland	23	1,879	-1.0	31, 407	-0.2	16	428	+0.5	6,938	
Massachusetts	62 27	2, 494	-3.4	47, 593	-5.5	10	970	9 1	7 040	
Minnesota	15	1, 952 863	$-1.1 \\ -1.8$	31, 340 15, 756	$+1.4 \\ -0.2$	16	373 259	-3.1 $-2.3$	7, 940 5, 023	-4
Mississippi	3	124	+5.1	1, 351	+11.5	9	200	-2.0	0, 023	-6
Missouri	37	3, 032	+2.5	45, 631	-2.1	17	449	-6.5	8,418	-6
Montana Vebraska	8	244 877	-3.2 + 5.5	4, 824 14, 647	-5.3 + 1.5	4	65	+4.8	1 000	
New Hampshire	11	235	-2.1	3, 970	-1.5		60		1, 282	-
New Jersey	28	3, 099	-1.6	68, 969	-1.6	7	326	-5.2	9, 197	-5
New Mexico	3	107	+4.9	1,714	+0.8					
Nevada	61	61 6, 923	-12.9 $-1.1$	1, 541 133, 799	-1.7 $-1.6$	16	621	-2.8	14,923	
North Carolina	5 4	280	-9.1 $-1.3$	3, 393	+10.6 $-2.8$		021	-2.0	19, 925	
Ohio	68	4, 587	+0.7	1, 433 82, 419	-2.8 -0.8	19	1,390	-1.2	26, 777	-
Oklahoma	3	328	-8.1	5, 010	-7.0					
Oregon	6	357	-0.8	6, 578	+1.0	5	52	-3.7	1, 238	
Pennsylvania	51	3,756	-1.9	64, 253	-1.9	23	880	-6.7	18, 084	-
Rhode Island	18	1,090	-0.7	20, 876	-1.4	8	293	-5.5	5, 840	-
outh Carolina	7	342	-1.2	3, 821	-0.4				********	
outh Dakota	3	89	-4.3	1, 572	+0.8					
Cennessee	12 19	758 919	-1.9 $-3.3$	7, 801 12, 864	-3.4 $-5.5$	9	205 271	-6.4 $-4.2$	4, 129 5, 174	-
Jtah	7	584	-3.3 -1.0	9, 453	-3.5 -4.3	5	91	-4.2 $-10.8$	1,718	-1
ermont	3	36	-7.7	486	-14.9				2,110	
irginia	11	910	-1.6	12,035	+2.2	17	288	-2.0	4,635	-
Washington	4	109	-6.0	2, 345	-3.5	3	31	+3.3	567	1 -
West Virginia Visconsin	7 28	584 1,048	$-0.2 \\ -1.5$	9,006 17,264	+2.3 -1.9	5	89	-16.0	1,845	1

<sup>&#</sup>x27; Includes dyeing and cleaning.

# Employment and Pay Rolls in January, 1932, in Cities of Over 500,000 Population

IN THE following table are presented the fluctuations in employment and earnings in January, 1932, as compared with December, 1931, in 13 cities of the United States having a population of 500,000 or over. These fluctuations are based on reports received from identical establishments in each of the months considered.

These city tabulations include all establishments reporting in the 15 industrial groups in these 13 cities, and also additional employment information secured from banks, insurance companies, garages,

and other establishments in these 13 cities. Building construction data are not included in these totals, as information is not available for all cities at this time. Decreases in both employment and earnings are shown in 12 of these cities. An increase of 3.1 per cent in employment coupled with a loss of 1 per cent in pay-roll totals is shown in Detroit. This increase is due principally to increased employment in the automobile industry.

CHANGES IN EMPLOYMENT AND PAY ROLL IN 13 CITIES, DECEMBER, 1931, TO JANUARY, 1932

Cities	Number of estab- lishments	Number o	n pay roll	Per cent of	Amount of (1 w	of pay roll eek)	Per cent of
Citago	reporting in both months	December, 1931	January, 1932	change	December, 1931	January, 1932	change
New York City	1, 819 1, 790 556 392 527 422 460 458 2, 135 260 1, 043 224 259	289, 347 222, 739 117, 855 175, 777 54, 231 73, 487 68, 375 53, 131 78, 174 52, 171 41, 722 43, 549 40, 345	267, 240 217, 635 112, 133 181, 259 49, 384 68, 379 67, 399 69, 557 74, 254 47, 824 40, 262 43, 107 34, 838	-7.6 -2.3 -4.9 +3.1 -8.9 -7.0 -1.4 -6.7 -5.0 -8.3 -3.5 -13.6	\$8, 281, 264 6, 058, 226 2, 889, 447 4, 332, 491 1, 352, 999 1, 656, 030 1, 117, 946 2, 151, 656 1, 119, 949 1, 095, 715 856, 709	\$7, 592, 373 5, 682, 734 2, 644, 181 4, 289, 089 1, 231, 943 1, 514, 565 1, 498, 761 1, 028, 417 2, 014, 536 1, 025, 539 1, 057, 244 1, 015, 198 719, 259	-8.3 -6.2 -8.5 -1.6 -8.5 -8.5 -8.6 -6.4 -11.6 -7.3 -16.6

# Employees in Executive Civil Service of the United States, January, 1932

THE table following shows for specified months the number of officers and employees in the executive civil service of the United States Government. The figures are complete except for temporary employees in the field service of the Post Office Department. The number of such employees varies greatly, mainly because of seasonal demands, the principal demand for temporary Post Office employees being during the Christmas mail rush. Their term of service is usually quite brief.

As indicated by the title of this article, the figures do not include

the legislative, judicial, Army, or Navy services.

The figures are compiled by the several departments and offices and sent to the United States Civil Service Commission where they are assembled. They are here published by courtesy of the commission and in compliance with the direction of Congress. Data relating to pay rolls have not yet been collected.

Because of the importance of Washington as a Government center, the figures are given for the District of Columbia separately. The District of Columbia figures are included in the grand total for the

entire service.

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At the end of January, 1932, there were 609,283 employees on the pay rolls of the executive civil service of the United States. Of this number, 581,131 were permanent employees and 28,152 were temporary employees. In the interval between December 31, 1931, and January 31, 1932, there was a gain of 2,915 employees, or 0.48 per cent. Comparing the number on the pay roll on January 31, 1932, with those on the pay roll on the last day of January, 1931, there was a gain of 10,663 or 1.78 per cent. During the month of January,

1932, 12,119 employees were separated from the service because of resignations, termination of appointments, deaths, or other causes, and there were 15,034 new employees hired. This gives a net turn. over rate of 1.99 per 100 employees during the month.

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The turnover rate for the service as a whole is considerably higher than the turnover rate for the District of Columbia. There were 69,710 employees on the Government pay rolls in the District of Columbia at the end of January, 1932.

EMPLOYEES IN EXECUTIVE CIVIL SERVICE OF THE UNITED STATES, JANUARY, 1931, DECEMBER, 1931, AND JANUARY, 1932

	Dist	trict of Colum	abia	1	Entire service	Э
Class	January, 1931	December, 1931	January, 1932	January, 1931	December, 1931	January, 1932
Permanent employees	63, 309	65, 669	66, 043	563, 480	578, 383	581, 13
partment)	7, 943	3, 766	3, 667	35, 140	27, 985	28, 15
Total	71, 252	69, 435	69, 710	598, 620	606, 368	609, 20
Gain or le	pes		District of	Columbia	Entire	service
			Number	Per cent	Number	Per cent
January, 1931, to January, 1932. December, 1931, to January, 193	32		-1, 542 +275	-2.16 +.40	+10, 663 +2, 915	+1.7
	Labor turn	over	(1)	on domi	District of Columbia	Entire
Additions in January, 1932 Separations in January, 1932 Monthly turnover, 1932.					Number 1, 207 932 1, 34	Number 15, 05 12, 11

# Employment in Building Construction in January, 1932

MPLOYMENT in building construction decreased 14.9 per cent in January, 1932, as compared with December, 1931, and pay rolls decreased 16.9 per cent during the same period. This information is based on reports received from 6,822 firms engaged in building operations in 43 cities covered by the Federal bureau and 2,501 additional firms in various localities in Pennsylvania, California, Massachusetts, Wisconsin, and the city of Baltimore, Md.

As shown by the following table, these firms reported a combined employment of 77,576 for a week ending near January 15 as compared with 91,131 for a similar period in December. The total pay roll for these employees was \$2,063,168 for a week ending near January 15 as compared with \$2,481,857 for a similar period in December.

In the 43 cities covered by the Federal bureau, reports were received from 6,822 identical contractors and subcontractors whose total employment for a week ending near January 15 was 50,340 as compared with 59,317 for a similar period in December. This is a decrease of 15.1 per cent, which is practically the same as the decrease for the 9.323 firms engaged on building construction in all localities. Four cities reported increased employment ranging from 0.3 per cent for Grand Rapids to 14.0 per cent for Nashville. These 6,822 firms reported a combined pay roll of \$1,348,383 for a week ending near January 15 as compared with \$1,623,386 for a similar period in December. This is a decrease of 16.9 per cent, which is the same percentage of decrease in total pay roll as was reported by the 9,323 firms for all localities. Two cities showed increased pay rolls, the increase for Louisville being 3.5 per cent and for Nashville 11.8 per cent.

The data for the 14 cities in Pennsylvania, based on returns from 1.350 identical firms, show a decrease of 18.5 per cent in employment

and 18.6 per cent in pay rolls.

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Employment and pay-roll information for California covers 194 identical firms whose combined employment and pay rolls decreased 6.5 and 4.8 per cent, respectively, when January is compared with December. However, there was an increase of 0.3 per cent in the total pay roll for the reporting firms from San Francisco-Oakland.

Decreased employment and pay rolls are also reported for the city

of Baltimore and the States of Massachusetts and Wisconsin.

Data concerning the building construction industry appearing in the following table have not been included in the summary table shown at the beginning of this trend of employment article.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CON-STRUCTION INDUSTRY IN IDENTICAL FIRMS, DECEMBER, 1931, AND JANUARY, 1932

Lecality	ber of firms	week endi	n pay roll ng near—	Per cent	Amount o week endi	Per cent	
	report- ing	Dec. 15	Jan. 15	of change	Dec. 15	Jan. 15	or change
Akron	77	456	340	-25.4	\$9, 982	\$7, 939	20.
Atlanta	131	1, 287	1, 281	÷0.5	21, 707	19, 944	-8.1
Birmingham		598	535	-10.5	10, 881	8, 665	-20.4
Bridgeport		731	553	-24.4	20, 217	15, 172	-25.0
Charlotte		311	281	-9.7	5, 974	4, 642	-22.3
Cincinnati 1	496	3, 106	2, 692	-13.3	90, 836	82, 286	-9.4
Cleveland	464	2, 944	2, 628	-10.7	96, 959	83, 496	-13. 9
Dallas		815	810	-0.6	17, 529	16, 113	-8.1
Denver		934	939	+0.5	25, 492	23, 624	-7.8
Des Moines	98	735	583	-20.7	17, 012	13, 317	-21.7
Detroit		4, 791	3, 820	-20.3	129, 567	109, 046	-15.8
Duluth		221	175	-20.8	4, 988	3, 377	-32.3
Fort Wayne		521	464	-10.9	12, 787	10, 477	-18.1
Grand Rapids		364	365	+0.3	8, 426	7, 763	-7.5
Hartford		1,716	1, 323	-22.9	52, 226	39, 966	-23.
Houston		608	645	+6, 1	12, 989	12, 582	-3.1
Indianapolis	169	1, 364	1, 027	-24.7	42, 186	27, 212	-35.
lacksonville.	55	443	305	-31. 2	7, 019	5, 230	-25. 8
Kansas City 2	219	1, 674	1, 386	-17.2	55, 838	41, 893	-25.
Louisville	122	1,030	1, 013	-1.7	21, 624	22, 389	+3. 8
Memphis.	102	863	689	-20.2	16, 896	12, 335	-27.
Miami		1, 224	608	-50.3	29, 150	16, 233	-44.3
Minneapolis	219	1,734	1, 463	-15.6	51, 383	39, 447	-23.
Nashville	63	808	921	+14.0	14, 146	15, 814	+11.8
New Haven		2,672	2, 456	-8.1	97, 393	93, 892	-3.6
New Orleans	116	1,741	1, 337	-23. 2	33, 412	25, 028	-25.
Norfolk-Portsmouth	82	503	446	-11.3	10, 034	9, 457	-5.8
Oklahoma City	98	1, 293	1, 069	-17.3	29, 313	28, 739	-2.0
Omaha	117	780	552	-29.2	19, 908	13, 784	-30.8
Portland, Me.	77	524	358	-31.7	14, 001	9, 541	-31.9
Portland, Oreg	200	960	958	-0.2	25, 154	24, 038	-4.4
Providence.	229	2, 210	1, 933	-12.5	61, 297	50, 080	-18.3
Richmond	140		1, 054	-9.6	27, 896	23, 029	-17.4
Richmond St. Louis	140	1, 166 3, 104	2, 468	-20.5	103, 128	81, 238	-21.
st. Paul	459 121	1, 430	2, 408	-20. 5 -34. 1	40, 887	22, 765	

Includes Covington and Newport, Ky.
 Includes both Kansas City, Kans., and Kansas City, Mo.

COMPARISON OF EMPLOYMENT AND TOTAL PAY ROLL IN THE BUILDING CON. STRUCTION INDUSTRY IN IDENTICAL FIRMS, DECEMBER, 1931, AND JANUARY, 1932—Continued

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Locality	Num- ber of firms	Number of week endi	n pay roll ng near—	Per cent	Amount of week endi		Per cent of change
are officerated took	report- ing	Dec. 15	Jan. 15	or change	Dec. 15	Jan. 15	
Salt Lake City	86 198 34 51 503 53 62 103	671 1, 375 144 375 8, 854 239 386 1, 612	498 1, 356 136 327 7, 583 226 314 1, 480	-25.8 -1.4 -5.6 -12.8 -14.4 -5.4 -18.7 -8.2	\$14, 633 a 37, 657 3, 725 7, 692 269, 512 5, 431 7, 865 38, 634	\$9, 266 36, 363 3, 150 7, 319 225, 904 5, 020 6, 325 34, 483	-36. -3. -15. -4. -16. -7. -19. -10.
Total, 43 cities	6, 822	59, 317	50, 340	-15.1	1, 623, 386	1, 348, 383	-16.
Erie <sup>3</sup>	31 671 286 77 48	218 5, 033 2, 652 562 276	130 4, 222 2, 072 519 239	-40. 4 -16. 1 -21. 9 -7. 7 -13. 4	4, 820 136, 862 89, 486 11, 653 7, 013	3, 653 111, 074 71, 944 11, 220 5, 939	-24. -18. -19. -3. -15.
50,000 under 100,000 3	237	1, 374	1, 058	-23.0	27, 520	22, 021	-20.
Total, 14 cities	1, 350	10,115	8, 240	-18.5	277, 354	225, 851	-18.
Los Angeles 3 San Francisco-Oakland 3 California (including all	47 76	3, 345 3, 923	3, 279 3, 715	-2. 0 -5. 3	74, 919 95, 702	72, 516 96, 011	-3. +0.
localities) <sup>3</sup>	194	10, 168	9, 512	-6.5	231, 315	220, 243	-4.
Baltimore, Md.³ Massachusetts³ Wisconsin³	143 749 65	1, 326 8, 246 1, 959	1, 270 6, 634 1, 580	-4. 2 -19. 5 -19. 3	33, 383 269, 683 46, 736	29, 277 204, 057 35, 357	-12 -24 -24
Grand total, all lo- calities	9, 323	91, 131	77, 576	-14.9	2, 481, 857	2, 063, 168	-16.

<sup>&</sup>lt;sup>3</sup> Data supplied by cooperating State bureaus.

# Employment on Class I Steam Railroads in the United States

THE monthly trend of employment from January, 1923, to December, 1931, on Class I railroads—that is, all roads having operating revenues of \$1,000,000 or over—is shown by the index numbers published in Table 1. These index numbers are constructed from monthly reports of the Interstate Commerce Commission, using the monthly average for 1926 as 100.

TABLE 1.—INDEX OF EMPLOYMENT ON CLASS I STEAM RAILROADS IN THE UNITED STATES, JANUARY, 1923, TO DECEMBER, 1931

Month	1923	1924	1925	1926	1927	1928	1929	1930	1931
January February March April May June July August September October November December	98. 3 98. 6 100. 5 102. 0 105. 0 107. 1 108. 2 109. 4 107. 8 107. 3 105. 2 99. 4	96. 9 97. 0 97. 4 98. 9 99. 2 98. 0 98. 1 99. 0 90. 7 100. 8 99. 0 96. 0	95. 6 95. 4 95. 2 96. 6 97. 8 98. 6 99. 4 99. 7 90. 7 90. 7 99. 1 97. 1	95. 8 96. 0 96. 7 98. 9 100. 2 101. 6 102. 9 102. 7 102. 8 103. 4 101. 2 98. 2	95. 5 95. 3 95. 8 97. 4 99. 4 100. 9 101. 0 99. 5 99. 1 98. 9 95. 7 91. 9	89. 3 89. 0 89. 9 91. 7 94. 5 95. 9 95. 6 95. 7 95. 3 92. 9 89. 7	88. 2 88. 9 90. 1 92. 2 94. 9 96. 1 96. 6 97. 4 96. 8 96. 9 93. 0 88. 8	86. 3 85. 4 85. 5 97. 0 88. 6 86. 5 84. 7 82. 2 80. 4 77. 0 74. 9	73. 72. 72. 73. 73. 74. 75. 76. 69. 64. 62.
Average	104. 1	98. 3	97. 9	100. 0	97. 5	92.9	93. 3	83. 5	70.

Table 2 shows the total number of employees on the 15th day each of December, 1930, and November and December, 1931, and payroll totals for the entire months.

In these tabulations data for the occupational group reported as "executives, officials, and staff assistants" are omitted.

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TABLE 2.—EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES, DECEMBER, 1930, AND NOVEMBER AND DECEMBER, 1931

[From monthly reports of Interstate Commerce Commission. As data for only the more important occupations are shown separately, the group totals are not the sum of the items under the respective groups]

to all the mail		of employed le of mont		Т	otal earnings	
Occupation	December 15, 1930	November 15, 1931	Decem- ber 15, 1931	December, 1930	November, 1931	December,
Professional, clerical, and general	239, 506	209, 224	205, 788	\$35, 480, 420	\$29, 720, 407	\$29, 808, 212
Clerks	. 131, 874	113, 086	110, 640	18, 416, 619	15, 028, 441	15, 101, 063
Stenographers and typists	22, 248	19, 461	19, 244	2, 938, 400	2, 479, 268	2, 487, 425
Maintenance of way and structures Laborers, extra gang and work	274, 479	234, 886	217, 195	25, 481, 474	19, 495, 096	18, 339, 454
train Laborers, track and roadway	24, 148	18, 105	13, 789	1, 627, 868	1, 032, 633	800, 998
section	141, 546	125, 159	116, 197	9, 343, 103	7, 003, 005	6, 623, 490
Maintenance of equipment and stores	375, 160	313, 116	310, 636	47, 968, 887	35, 620, 205	35, 934, 895
Carmen	78, 647	64, 788	63, 843	11, 217, 057	8, 289, 738	8, 291, 894
Machinists	48, 077	42,066	42, 319	7, 215, 944	5, 428, 597	5, 554, 186
Skilled trades helpers	82, 391	68, 295	68, 041	8, 821, 751	6, 367, 696	6, 430, 882
Laborers (shops, engine houses,						, , , , ,
power plants, and stores) Common laborers (shops, engine houses, power plants, and	31, 558	26, 278	25, 766	2, 998, 569	2, 292, 091	2, 326, 506
stores)	40, 251	32, 674	32, 042	2, 990, 203	2, 108, 231	2, 139, 663
Transportation, other than train,	12-5-12-1				1	
engine, and yard	168, 939	150, 136	146, 450	21, 537, 554	18, 218, 805	18, 453, 385
Station agents	28, 298	27, 105	26, 877	4, 547, 678	4, 097, 744	4, 238, 256
Telegraphers, telephoners, and						1
towermen	20, 737	18, 458	18, 185	3, 292, 425	2, 812, 695	2, 865, 381
Truckers (stations, warehouses, and platforms)	25, 151	21, 632	20, 497	2, 259, 704	1, 832, 883	1 771 001
Crossing and bridge flagmen and	20, 101	21,052	20, 491	2, 200, 101	1, 002, 000	1, 771, 961
gatemen	19, 226	18, 663	18, 542	1, 502, 394	1, 421, 852	1, 425, 624
Transportation (yardmasters, switch						
tenders, and hostlers)	19, 027	16, 417	16, 035	3, 746, 253	3, 030, 751	3, 017, 659
Transportation, train and engine	263, 359	230, 761	223, 292	51, 181, 921	42, 561, 688	42, 008, 762
Road conductors	29, 707	26, 107	25, 292	6, 939, 799	5, 892, 090	5, 861, 596
Road brakemen and flagmen		50, 605	48, 948	9, 505, 914	7, 988, 732	7, 804, 790
Yard brakemen and yard helpers	44, 611	39, 878	38, 479	7, 443, 911	6, 046, 778	5, 893, 951
Road engineers and motormen	35, 344	30, 924	29, 956	9, 242, 135	7, 786, 014	7, 733, 860
Road firemen and helpers	36, 289	31, 588	30, 650	6, 725, 785	5, 624, 313	5, 585, 455
All employees	1, 340, 470	1, 154, 540	1, 119, 396	185, 396, 509	148, 646, 952	147, 562, 367

# WHOLESALE AND RETAIL PRICES

# Retail Prices of Food in January, 1932

IT HAS been the custom of the Bureau of Labor Statistics to publish each month the retail prices of food and coal, by cities, and index numbers of individual food articles for the United States for all years back to 1913. Rates of electricity for household use and price per 1,000 cubic feet of gas, by cities, have been published for June and December of each year.

In the interest of economy in the cost of printing, these detailed statistics are eliminated from current publications, only summaries for the United States and limited comparisons being shown. Comparable information with that shown in previous publications is on record in the files of the bureau and available to those desiring to make use of it.

Table 1 shows for the United States retail prices and index numbers of food on January 15, and December 15, 1931, and January 15, 1932. These prices are simple averages of actual selling prices reported monthly by retail dealers in 51 cities. The index numbers are based on the average prices in 1913.

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TABLE 1.—AVERAGE RETAIL PRICES AND INDEX NUMBERS OF FOOD IN THE UNITED STATES ON JANUARY 15 AND DECEMBER 15, 1931, AND JANUARY 15, 1932

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	8.381		-		183		,

		Averag	e retail pr	ice on—	In	dex numb	ers
Article	Unit	Jan. 15, 1931	Dec. 15, 1931	Jan. 15, 1932	Jan. 15, 1931	Dec. 15, 1931	Jan. 15, 1932
Sirloin steak Po Round steak Rib roast Chuck roast Plate beef	do do	31. 5 24. 4	Cents 36. 3 31. 3 26. 7 19. 6 13. 1	Cents 34. 9 30. 1 25. 7 18. 5 12. 3	167. 3 168. 2 159. 1 152. 5 138. 0	142. 9 140. 4 134. 8 122. 5 108. 3	137. 4 135. 0 129. 8 115. 6 101. 7
Pork chops Bacon, sliced Ham, sliced Lamb, leg of Hens	do do	40. 2 50. 6 31. 4	21. 8 30. 3 39. 7 24. 9 28. 6	20. 9 27. 4 37. 6 24. 1 27. 9	141. 9 148. 9 188. 1 166. 1 153. 5	103. 8 112. 2 147. 6 131. 7 134. 3	99. 5 101. 5 139. 8 127. 5 131. 0
Salmon, red, canned Milk, fresh Milk, evaporated Butter Po	uart	13. 3 8. 9	29. 6 11. 6 8. 0 36. 5	29. 4 11. 5 8. 0 32. 3	149. 4	130. 3 95. 3	129. 2
Butter Poleomargarine (all butter substitutes). Cheese Lard Vegetable lard substitute.	do	32. 1 15. 7	18. 8 26. 2 11. 2 22. 0	25. 5 10. 1 21. 9	145. 2 99. 4	118. 6 70. 9	115. 4 63. 9
Eggs, strictly fresh D Bread Pe	ozen	36. 1 8. 2	38. 5 7. 2	29. 7 7. 1	104. 6 146. 4	111. 6 128. 6	86. 1 126. 8
Flour	do do oz. package	5. 1	3. 3 4. 1 7. 9 8. 7 23. 0	3. 3 4. 0 7. 7 8. 6 22. 8	121. 2 170. 0	100. 0 136. 7	
Macaroni Pe Rice Beans, navy	do		16.0 7.4 6.2	15. 9 7. 4 5. 8	102. 3	85. 1	85.
Potatoes	do	2.9	1.8	1.7 6.6	170. 6	105. 9	100.

TABLE 1.—AVERAGE RETAIL PRICES AND INDEX NUMBERS OF FOOD IN THE UNITED STATES ON JANUARY 15 AND DECEMBER 15, 1931, AND JANUARY 15, 1932—Contd.

		Averag	e retail pr	ice on—	Index numbers			
Article	Unit	Jan. 15, 1931	Dec. 15, 1931	Jan. 15, 1932	Jan. 15, 1931	Dec. 15, 1931	Jan. 15, 1932	
		Cents	Cents	Cents				
Cabbage	Pound	4.3	3.4	4.1				
Pork and beans	. 16 oz. can	8.4	8.2	8.4				
Corn. canned	No. 2 can	14. 7	11.9	11.5				
Peas, canned	do	15. 5	13. 5	13. 4				
Tomatoes, canned	do	11. 2	9. 6	9. 5				
Sugar	Pound	5. 9	5. 5	5, 4	107. 3	100.0	98.	
Tea	do	76. 7	75.1	74.1	141.0	138. 1	136.	
Coffee	do	37. 8	31.5	31.0	126.8	105. 7	104.	
Prunes	do	12.9	10, 5	10.3				
Raisins	do	11.3	11.5	11.5				
Bananas	Dozen	29. 1	24.8	23.8				
Oranges	do	32. 5	31. 3	29.7				
Weighted food index					132.8	114.3	109. 3	

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Table 2 shows the trend in the retail cost of three important groups of food commodities, viz, cereals, meats, and dairy products, by years and by months for 1931 and 1932. The articles within these groups are as follows:

Cereals: Bread, flour, corn meal, rice, rolled oats, corn flakes, wheat cereal, and macaroni.

Meats: Sirloin steak, round steak, rib roast, chuck roast, plate beef, pork chops, bacon, ham, hens, and leg of lamb.

Dairy products: Butter, cheese, fresh milk, and evaporated milk.

Table 2.—INDEX NUMBERS OF RETAIL COST OF CEREALS, MEATS, AND DAIRY PRODUCTS FOR THE UNITED STATES, BY MONTHS, 1931 AND 1932 [Average cost in 1913=100.0]

Year and month	Cereals	Meats	Dairy prod- ucts	Year and month	Cereals	Meats	Dairy prod- ucts
1931; Average for year	135. 9	147. 0	114. 6	1931—Continued.			
January	147. 1	159. 5	123. 6	August	132. 0	149. 1	111.9
February	144. 6	153. 4	120. 2	September	130. 2	147. 7	114. 3
March	142.4	152. 5	120. 5	October	129.8	142.7	117. 0
April	138. 9	151. 4	116. 5	November	129. 1	135. 4	114. 4
May	137. 7	149. 3	110. 3	December	127.8	129. 3	111. 4
June	136. 3	145. 7	108. 3	1932:			
July	134. 3	147.8	109. 6	January	126. 3	123. 4	106. 5

The curve shown in the chart (p. 727) pictures more readily to the eye the changes in the cost of the food budget than do the index numbers given in the table.

### Comparison of Retail Food Costs in 51 Cities

Table 3 shows for 39 cities the percentage of increase or decrease in the retail cost of food in the United States in January, 1932, compared with the average cost in the year 1913, in January, 1931, and December, 1931. For 12 other cities comparisons are given for the 1-year and the 1-month periods; these cities have been scheduled by the bureau at different dates since 1913. The percentage changes

are based on actual retail prices secured each month from retail dealers and on the average consumption of these articles in each city. The consumption figures which have been used since January, 1921, are given in the Labor Review for March, 1921 (p. 26). Those used for prior dates are given in the Labor Review for November, 1918 (pp. 94 and 95).

Effort has been made by the bureau each month to have all schedules for each city included in the average prices. For the month of January schedules were received from 99 per cent of the firms in

the 51 cities from which retail prices of food are collected.

Out of about 1,245 food reports 19 were not received—1 each in Charleston, Dallas, Detroit, Jacksonville, Minneapolis, New Orleans, New York, Philadelphia, and San Francisco; 2 each in Milwaukee, Pittsburgh, and Portland (Me.).

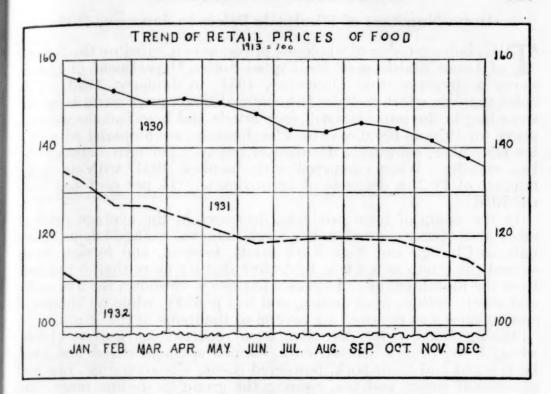
Out of about 350 bread reports 4 were missing, 1 each in Hous-

ton, Los Angeles, New Orleans, and Pittsburgh.

A perfect record is shown for the following-named cities: Atlanta, Baltimore, Birmingham, Boston, Bridgeport, Buffalo, Butte, Chicago, Cincinnati, Cleveland, Columbus, Denver, Fall River, Indianapolis, Kansas City, Little Rock, Louisville, Manchester, Memphis, Mobile, Newark, New Haven, Norfolk, Omaha, Peoria, Portland (Oreg.), Providence, Richmond, Rochester, St. Louis, St. Paul, Salt Lake City, Savannah, Scranton, Seattle, Springfield (Ill.), and Washington.

TABLE 3.—PERCENTAGE CHANGE IN THE RETAIL COST OF FOOD IN JANUARY, 1932, COMPARED WITH THE COST IN DECEMBER, 1931, JANUARY, 1931, AND WITH THE AVERAGE COST IN THE YEAR 1913, BY CITIES

City	Percent- age in- crease January,	Januar	ge decrease y, 1932, red with—	City	Percent- age in- crease January,	compar	ge decrease y, 1932, ed with—
	1932, com- pared with 1913	January, 1931	December, 1931	0.00	1932, com- pared with 1913	January, 1931	December, 1931
United States	9. 3	17. 7	4. 4	Minneapolis Mobile		17. 8 20. 9	3. 3
Atlanta	6.0	20. 5	5. 2	Newark	9.4	16. 4	4.5
Baltimore		18.1	3, 8	New Haven	18.8		3.
Birmingham		22.4	3.8	New Orleans		17.4	2.
Boston		18.9	7. 2	Tien Offeans	0, 0	11.2	4.
Bridgeport	0. 2	13, 8	3.9	New York	15, 9	15, 4	3.
Dridgeport		10.0	0, 8	Norfolk	10. 9	16. 9	20.
Buffalo	7.6	19.7	2.5	Omehe	3.7	17. 1	2.
	7.0			Omaha	0.1		3.
Butte		9.7	2.8	Peoria		19. 0	
Charleston, S. C		16.8	2.5	Philadelphia	11.6	17.3	8,
Chicago	18.6	18. 2	6. 2		1		
Cincinnati	12.3	20.4	6. 2	Pittsburgh	6.2	19.7	5.
				Portland, Me		14.8	4.
Cleveland	3.9	18.6	2.6	Portland, Oreg		12.4	6.
Columbus		20, 4	7.0	Providence	10. 2	16.8	7.
Dallas	5, 5	21.3	6.4	Richmond		19. 0	4.
Denver	. 10.9	16. 3	6.2	Attenmond	14, 0	10.0	7.
Denver	0. 9	10. 0	0, 2	Rochester	1715.55.00	17.0	4.
Detroit	4 7	22.2	5.7	St. Louis	10.3	18.0	3.
Detroit	4.7				10, 3		3.
Fall River	7.4	16.1	5.3	St. Paul		17.3	
Houston		16.8	2.5	Salt Lake City	2 5. 6	15. 2	6.
Indianapolis	2.2	20.7	6.0	San Francisco	12, 2	15. 7	2.
Jacksonville	1.4	20.6	3.7	Savannah		17.8	3.
Kansas City	6.7	19. 0	6.0	Scranton	15. 5	18.0	5.
Little Rock	120	21.9	5.7	Seattle	7.0	13, 3	5.
Los Angeles	2.7	13, 1	4.9	Springfield, Ill		21. 7	2.
and angular and		10. 1	1. 0	Washington		19. 7	5.
Louisville	3, 1	18,6	4.3	TI MULLING BOIL	10, 1	100	
Manchester		16.6	3.2	Hawaii:	-		
					STATE OF STATE OF	0 =	1.
Memphis		19.3	3.7	Honolulu	~~~~~~~	9.7	2.
Milwaukee	10.4	14.5	1.2	Other localities.		9.6	Los



# Retail Prices of Coal in January, 1932

RETAIL prices of coal are secured in each of the 51 cities in which retail food prices are obtained. The prices quoted are for coal delivered to consumers but do not include charges for storing the coal in cellar or bins where an extra handling is necessary.

Average prices for the United States for bituminous coal and for stove and chestnut sizes of Pennsylvania anthracite are computed from the quotations received from retail dealers in all cities where

these coals are sold for household use.

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The table shows the average prices of coal per ton of 2,000 pounds and index numbers for the United States on January 15, 1932, in comparison with the average prices on January 15, 1931, and December 15, 1931, together with the percentage change in the year and in the month.

AVERAGE RETAIL PRICE PER 2,000 POUNDS OF COAL FOR THE UNITED STATES, AND PER CENT OF CHANGE ON JANUARY 15, 1932, COMPARED WITH JANUARY 15, 1931, AND DECEMBER 15, 1931

Article	Averag	e retail pri	Per cent of increase  (+) or decrease  (-) January, 1932, compared with—		
the manufacture of the first of	Jan. 15, 1931	Dec. 15, 1931	Jan. 15, 1932	Jan. 15, 1931	Dec. 15, 1931
Pennsylvania anthracite: Stove—					
Average price per 2,000 pounds Index (1913=100.0) Chestnut—	\$15, 12 195, 8	\$15.00 194.2	\$15,00 194,2	-0.8	0. 0
Average price per 2,000 pounds Index (1913=100.0) Bituminous:	\$14. 88 188. 1	\$14. 97 189. 1	\$14. 97 189. 2	+.6	.0
Average price per 2,000 pounds	\$8. 87 163. 2	\$8. 19 150. 8	\$8. 17 150. 3	-7.9	-0.2

# Index Numbers of Wholesale Prices in January, 1932

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THE index number of wholesale prices, as computed by the Bureau of Labor Statistics of the United States Department of Labor, shows a decrease from December, 1931, to January, 1932. This index number, which includes 784 commodities or price series weighted according to the importance of each article and based on the average prices for 1926 as 100.0, was 67.3 for January, as compared with 68.6 for December, showing a decrease of nearly 2 per cent between the two months. When compared with January, 1931, with an index number of 78.2, a decrease of approximately 14 per cent has been recorded.

In the group of farm products, decreases in the average price of most grains, hogs, dried beans, eggs, lemons, oranges, hops, fresh milk in Chicago and New York, seeds, tobacco, and foreign wools caused the group as a whole to decline slightly more than 5 per cent from the month before. Increases in price were shown for live cattle and sheep, cotton, fresh onions, and live poultry, while no change of consequence was reported for several of the items in the group.

Among foods, price decreases were reported for butter, cheese, wheat flour, prunes, canned corn, canned spinach, cured and fresh beef, cured and fresh pork, powdered cocoa, oleomargarine, raw and granulated sugar, and tea, causing the group to decline more than 6 per cent in January when compared with December. Canned peaches and canned pineapple, raisins, mutton, lamb, veal, coffee, black pepper, and table salt averaged higher than in the month before.

The group of hides and leather products decreased approximately one-half of 1 per cent as a whole. Leather, boots and shoes, and other leather products moved downward, while hides and skins showed an upward tendency.

In the group of textile products, all subgroups showed a downward movement in price from December to January. The group as a whole decreased 1½ per cent, with practically all of the items included either showing a downward tendency or no change in average prices.

Bituminous coal increased slightly, with coke and petroleum products declining, while anthracite coal remained at the December level. The group of fuel and lighting materials as a whole decreased slightly more than one-half of 1 per cent.

Price fluctuations in the items composing the metals and metal products group were only slight. The group as a whole, however, showed a downward tendency, being influenced by the prices of iron and steel, nonferrous metals, and plumbing and heating items, though agricultural implements showed a steadying in price.

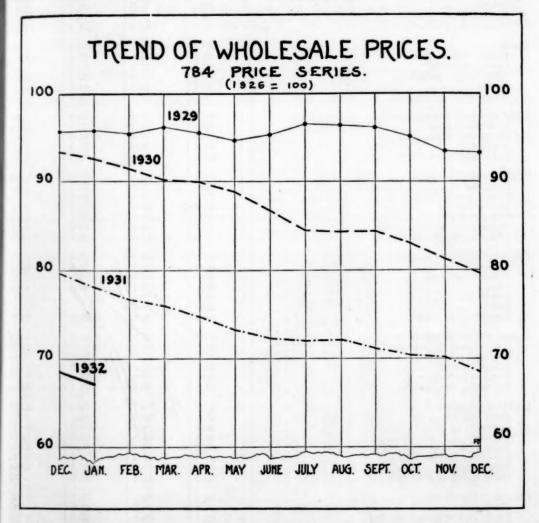
In the group of building materials, cement prices moved slightly upward, while average prices for brick and tile, lumber, paint and paint materials, structural steel, and other building materials, all moved steadily downward, forcing the group to decline approximately 1 per cent,

Mixed fertilizers showed the greatest drop in price of any of the subgroups of the chemicals and drugs group. Chemicals, drugs and pharmaceuticals, and fertilizer materials all showed a downward tendency, though the group as a whole decreased less than one-half of 1 per cent.

Both furniture and furnishings in the group of house-furnishing goods continued to decline in the month. As a whole, this group

declined 1 per cent from December to January.

Prices of cattle feed showed a continuous downward trend, whereas the prices of automobile tires and tubes, paper and pulp, and crude



rubber, though moving downward, did not show as sharp a price recession as the other subgroups. Other miscellaneous also showed declining prices. The decrease for this important group of miscellaneous articles was nearly 2 per cent in the month.

Between December and January price decreases took place in 289 instances, increases in 96 instances, while in 399 cases no change

occurred.

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### INDEX NUMBERS OF WHOLESALE PRICES BY GROUPS AND SUBGROUPS OF COM-MODITIES

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[1926 = 100.0]

Commodity groups and subgroups	January, 1931	December,	January, 1932	Purchasing power of the dollar, January, 1932
All commodities	78. 2	68. 6	67. 3	\$1.486
Farm products  Grains  Livestock and poultry  Other farm products	73. 1	55. 7	52. 8	1. 894
	62. 4	47. 0	46. 7	2. 141
	75. 2	51. 7	53. 4	1. 873
	75. 3	61. 2	54. 8	1. 825
Foods	83. 7 75. 7 76. 9 88. 4 74. 5	69. 1 79. 8 72. 2 63. 5 63. 2 67. 2	64. 7 67. 8 71. 0 62. 2 61. 9 61. 9	1. 546 1. 475 1. 408 1. 608 1. 616
Hides and leather products	95. 1	79. 8 89. 2 48. 8 78. 6 99. 7	79. 3 88. 8 49. 0 77. 5 98. 9	1. 261 1. 126 2. 041 1. 290 1. 011
Textile products  Clothing Cotton goods Knit goods Silk and rayon Woolen and worsted goods Other textile products	71. 3	60. 8	59. 9	1. 669
	79. 1	70. 8	70. 7	1. 414
	73. 5	56. 4	55. 8	1. 792
	64. 8	58. 5	55. 8	1. 792
	49. 0	39. 0	37. 7	2. 653
	73. 7	63. 9	63. 3	1. 580
	77. 2	71. 3	70. 7	1. 414
Fuel and lighting materials Anthracite coal Bituminous coal Coke Electricity Gas Petroleum products	88. 9 88. 1	68. 3 94. 8 83. 8 81. 1 104. 1 98. 2 39. 6	67. 9 94. 8 84. 4 80. 5	1. 473 1. 055 1. 185 1. 242
Metals and metal products	94. 4 85. 5 95. 1 69. 5	82. 2 85. 5 81. 0 95. 2 53. 8 79. 9	81. 8 85. 5 79. 9 95. 3 55. 4 74. 1	1. 222 1. 170 1. 252 1. 049 1. 805 1. 350
Building materials Brick and tile Cement Lumber Paint materials Plumbing and heating Structural steel Other building materials	83. 8	75. 7	74. 8	1. 337
	87. 0	80. 0	79. 3	1. 261
	90. 5	74. 6	75. 2	1. 330
	76. 4	65. 8	65. 6	1. 524
	83. 2	76. 6	75. 4	1. 326
	87. 4	79. 9	74. 1	1. 350
	83. 0	81. 7	77. 3	1. 294
	87. 8	81. 5	81. 0	1. 235
Chemicals and drugs Chemicals. Drugs and pharmaceuticals Fertilizer materials. Mixed fertilizers.	84. 5	76. 1	75. 7	1. 321
	88. 3	80. 8	80. 6	1. 241
	65. 3	61. 0	60. 6	1. 650
	81. 4	70. 1	69. 9	1. 431
	90. 4	77. 1	75. 5	1. 325
House-furnishing goods	88. 3	78. 5	77. 7	1. 287
Furnishings	84. 9	76. 6	76. 1	1. 314
Furniture	92. 1	80. 6	79. 5	1. 258
Miscellaneous Automobile tires and tubes Cattle feed Paper and pulp Rubber, crude Other miscellaneous	72. 2	66. 8	65. 6	1. 524
	47. 2	40. 8	39. 7	2. 519
	75. 0	• 53. 9	53. 0	1. 887
	83. 6	80. 8	78. 0	1. 282
	17. 1	9. 5	9. 3	10. 799
	89. 9	85. 9	85. 2	1. 174
Nonagricultural commodities	79. 3	71. 3	70. 3	1. 422
	79. 0	72. 3	71. 7	1. 395

<sup>1</sup> Data not yet available.

## Decline in Wholesale Prices in Various Foreign Countries Since 1926

TABLE 1 shows index numbers of wholesale prices in the United States and the more important foreign countries as compiled from official records published in each country. The table shows the peak of prices since January, 1926, together with the month in which the peak occurred. In comparison with these indexes is shown the date and the most recent index number as published. From these indexes has been computed the per cent of decline from the high point since January, 1926, to the latest date for which figures are available. Opposite the country the number of commodities included in such indexes at the present time is given.

Table 1.—COMPARISON OF MOST RECENT INDEX NUMBERS OF WHOLESALE PRICES WITH PEAK SINCE JANUARY, 1926

	Num-	Peak si January,		Latest ava		Per cent of decrease	
Country	ber of com- modi- ties	Date	Index number	Date	Index number	from peak shown to latest data	
United States	784	Jan., 1926	103. 2	Dec. 1931	68. 6	33. 5	
Australia		Oct., 1927	1, 972. 0	Oct., 1931	1, 402. 0	28. 9	
Austria	1 47	June, 1927	142.0	Dec., 1931	112.0	21. 1	
Belgium		July, 1926	876.0	do	573.0	34. 6	
Bulgaria		Apr., 1929	125. 1	Oct., 1931	78. 7	37. 1	
Canada		Jan., 1926	103. 0	Dec., 1931	70. 3	31. 7	
Chile		May, 1928	124. 1	Oct., 1931	87. 5	29, 5	
China (Shanghai)		Aug., 1931	130. 3	Dec., 1931	121.8	6. 5	
Czechoslovakia	69	Aug., 1928	145. 6	do	103.8	28.7	
Denmark	118	Oct., 1926	178.0	do	119.0	33. 1	
Egypt (Cairo)		Mar., 1926	134.0	Nov., 1931	92.0	31. 3	
Finland		Aug., 1928	103.0	Dec., 1931	92.0	10. 7	
France	45	July, 1926	836. 0	Nov., 1931	408.0	51. 2	
France		do	806.0	Dec., 1931	442.0	45. 2	
Germany	400	July, 1928	141.6	do	103. 7	26. 8	
India (Bombay)		Jan., 1926	154. 0	Oct., 1931	107. 0	30. 8	
India (Calcutta)		do	159. 0	Dec., 1931	98.0	38. 4	
Italy	140	Aug., 1926	632. 5	do	318. 9	49. 6	
Japan		Jan., 1926	254. 0	Nov., 1931	147. 0	42.	
Latvia (Riga)		Apr., 1928	133. 2	Dec., 1931	80.8	39.	
Netherlands		June, 1928	153. 0	do	85.0	44.	
Netherland East Indies		Year, 1926	159.0	Oct., 1931	97.0	39. (	
New Zealand	180	Jan., 1926	1, 677. 0	do	1, 380. 0	17. 7	
Norway.		Mar., 1928	160. 0	Dec., 1931	122.0	23. 8	
Poland	(1)	Apr., 1928	104. 7	Nov., 1931	68. 2	34. 9	
South Africa	188	Jan., 1927	1, 438. 0	Oct., 1931	1, 109. 0	22. 9	
Spain.		Dec., 1926	186. 0	do	175. 0	5. 9	
Sweden.		Jan., 1926	153. 0	Dec., 1931	111.0	27.	
Switzerland	121	do	152. 8	Nov., 1931	106. 2	30. 8	
United Kingdom	150	Nov., 1926	91.7	Dec., 1931	63. 7	30. 5	

Not reported.

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Table 2 gives details regarding the index numbers of wholesale prices in the United States and in foreign countries by years from 1926 to 1931, and by months for the year 1931.

TABLE 2.—INDEX NUMBERS OF WHOLESALE PRICES IN THE UNITED STATES AND IN CERTAIN COUNTRIES

Country	Unite		nada	Austria	Belgiu	m	Czech		De	n- rk	Fin	land	F	rance	Ger- many	Italy
Computing agency	Bures of Lat Statis tics	oor rea	min- Bu- u of atis- cs	Federal Statisti- cal Bureau	Minis try of Indust and Labor	ry	Centra Bures of Stat tics	au tis-	Stati cal I par mer	De- t-	Bu of S	ntral reau tatis- ics	St	eneral atisti- cal ureau	Federal Statisti- cal Bureau	Riccar do Bachi
Base period.	1926 (100)		26 00)	January- June, 1914 (100)	April 1914 (100)	,	July 1914 (100)	Ĺ	191 (100			926 00)		1913 (100)	1913 (100)	1913 (100)
1926 1927 1928 1929 1930 1931	100. 95. 97. 96. 86. 71.	4 7 5 3	00. 0 97. 7 96. 5 95. 5 86. 9 72. 6	123 133 130 130 130	74 84 84 85 74	7 3 1	955 979 979 923 1 118.		1 1 1 1	63 53 53 50 30 14		100 101 102 98 90		695 642 645 627 554	134. 4 137. 6 140. 0 137. 2 124. 6 110. 9	602.0 495.3 461.6 445.3 383.0
January February March April May June July August September October November December	77. 75. 74. 73. 71. 70. 70. 70. 69. 68. 68.	5 5 3 3 0 0 0 2 1 1 4 3	76. 7 76. 0 75. 1 74. 4 73. 0 72. 2 70. 9 70. 0 70. 4 70. 6 70. 3	105 107 107 108 107 110 114 110 108 109 112	66 655 664 644 633 611 599 589 587	8 0 2 0 2 5 6 7 1 4	1 110. 1 108. 1 108. 1 110. 1 110. 1 108. 1 112. 1 107. 1 105. 1 104. 1 104.	9 8 5 3 7 1 8 2 6 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 17 16 15 13 10 10 09 09 13 17 19		86 86 86 85 84 83 82 81 79 82 87 92		541 538 539 540 520 518 500 488 473 457 447 442	115. 2 114. 0 113. 9 113. 7 113. 3 112. 3 111. 2 108. 6 107. 1 106. 6 103. 7	341.7 338.1 339.3 337.0 331.7 326.5 324.3 321.6 319.1 322.2 320.4 318.9
Country	Neth- er- lands	Nor- way 2	Spai	n Swe- den	Swit- zer- land	1	Inited King- dom		Aus- ralia	2	lew lea-	Sou		Japan	China	India
Computing agency	Central Bureau of Statistics	Central Bureau of Statistics	Minitry of Laborand Prevision	of Cham- ber of Com- i- merce			Board of Frade	of su St	ureau Cen- s and tatis- tics	a St t	en- sus and atis- ics ffice	Offi of Cer su and Stat tic	n- s d	Bank of Japan Toky	Com- mis-	De- part- ment, etc.³, Cal- cutta
Base period.	1913 (100)	1913 (100)	1913 (100)		July, 1914 (100)	(	1924 (100)	(1	911 000)		9-13 000)	191 (100		Octo- ber, 1900 (100)	1926 (100)	July, 1914 (100)
1926	145 148 149 142 117	157 149 137	181 172 168 171 172	146 148 140	145 142 145 141 126		89. 1 85. 2 84. 4 82. 1 71. 9 62. 6		1832 1817 1792 1803 1596	1 1 1	620 541 555 552 511	13 13 13 13 13	95 54 05	237 225 226 220 181 153	100. 0 104. 4 101. 7 104. 5 114. 8	148 148 145 141 116
anuary February March April May une uly Lugust Petember October Vovember	105 104 103 102 102 100 97 94 91 89 89 89	128 126 124 123 121 120 120 120 117 119 119	173 175 174 172 169 169 170 177 178 175	114 113 112 111 110 110 109 107	115 115 114 112 111 110 109 108 106 106		64. 3 63. 9 63. 7 63. 6 62. 8 62. 1 61. 5 59. 9 59. 7 62. 8 64. 0 63. 7		1454 1448 1456 1447 1440 1425 1428 1399 1391 1402	14 14 14 14 14 14 14 14 14 14 14 14 14 1	476 442 433 417 400 394 378 382 382 382 386 384	110	15	159 158 158 158 154 151 163 152 150 147 147	119. 7 127. 4 126. 1 126. 2 127. 5 129. 2 127. 4 130. 3 129. 2 126. 9 124. 8 121. 8	98 99 100 98 97 93 93 92 91 96 97

<sup>&</sup>lt;sup>1</sup> In gold.

<sup>&</sup>lt;sup>2</sup> Revised figures.

<sup>&</sup>lt;sup>3</sup> Department of Commercial Intelligence and Statistics.

# COST OF LIVING

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### Decline in Cost of Living and Food in Various Countries Since 1926

THE following table shows index numbers of the total cost of living and the cost of food in the United States and in the more important foreign countries, as compiled from official records published in each country. The table shows the peak of prices since January, 1926, together with the month in which the peak occurred. In comparison with these indexes is shown the date and the most recent index number as published. From these indexes has been computed the per cent of decline which has occurred from the peak since January, 1926, to the latest available data shown. In the column opposite the country the number of localities included in these indexes at the present time is given.

COMPARISON OF MOST RECENT INDEX NUMBERS OF COST OF LIVING AND OF FOOD WITH PEAK SINCE JANUARY, 1926

		Peak since 1 1926		Latest ave	Per cent of de- crease		
Country	Localities	Date	Index	Date	Index	shown from peak to latest data	
United States: Cost of living Food United Kingdom:	32 51	Dec., 1926 Jan., 1926	175. 6 164. 3	Dec., 1931	145. 8 114. 3	17. 0 30. 4	
Cost of living	630 630	Dec., 1926 Jan., 1926	179. 0 171. 0	do	148. 0 132. 0	17. 3 22. 8	
Australia: Cost of living Food	30 30	Nov., 1929 Oct., 1929	1803. 0 1076. 0	May, 1931 Oct., 1931	1487. 0 805. 0	17. 5 25. 2	
Austria: Cost of living Food Belgium: 1	Vienna. Vienna.	Aug., 1930 Aug., 1929	113. 0 124. 0	Dec., 1931	108. 0 110. 0	4. 4 11. 3	
Canada:	59 59	Feb., 1930 Oct., 1929	237. 7 229. 1	Nov., 1931	198. 0 167. 9	16. 7 26. 7	
Cost of living	69 69	Feb., 1930 Jan., 1930	160. 0 162. 0	Dec., 1931 do	135. 0 107. 0	15. 6 34. 0	
Cost of living Food Czechoslovakia:	Shanghai. Shanghai.	Feb., 1931 July 1930	136. 0 130. 0	do	121. 2 97. 0	10. 9 25. 4	
Cost of living Food Denmark:	Prague. Prague.	Aug., 1928 June, 1927	112. 0 128. 3	do Nov., 1931	100, 6 100, 6	10. 2 21. 6	
Cost of living Food Finland:	100 100	Jan., 1926	194. 0 177. 0	Oct., 1931 do	154. 0 119. 0	20. 6 32. 8	
Cost of living	21 21	Nov., 1928	1262. 0 1194. 0	do	1013. 0 848. 0	19. 7 29. 0	
Cost of living. Food. Germany:	Paris. Paris.	Dec., 1930 June, 1931	597. 0 642. 0	Sept., 1931 do	565. 0 607. 0	5. 4 5. 5	
Cost of living	72 72	Mar., 1929	156. 5 159. 3	Dec., 1931 Nov., 1931	130. 4 121. 8	16. 7 23. 5	
Cost of living.	Bombay. Bombay.	Aug., 1927	157. 0 155. 0	Oct., 1931	108. 0 100. 0	31. 2 35. 5	

<sup>1</sup> Budget of workingman's family spending 20 to 30 francs per consumption unit per 15 days.

COMPARISON OF MOST RECENT INDEX NUMBERS OF COST OF LIVING AND OF FOOD WITH PEAK SINCE JANUARY, 1926—Continued

	1.3	Peak since . 1926		Latest ave	Per cen of de- crease		
Country	Localities	Date	Index	Date	Index	shown from peak to latest data	
Ireland:	Marine S						
Cost of living	105	Oct., 1926	185, 0	Nov., 1931	165, 0	10.	
Food		Jan., 1926	187. 0	do	155. 0	17.	
taly:		,					
Cost of living	Milan.	Oct., 1926	671.8	do	473.9	29.	
Food	Milan.	Jan., 1926	680. 9	do	436, 8	35.	
Netherlands:				~			
Cost of living	Amsterd.	June, 1926	170. 9	Sept., 1931	151. 2	11.	
Food	Amsterd.	June, 1928	169. 4	do	136. 9	19.	
New Zealand:	0.4	37 1000	****	3.7 4004	000 0		
Cost of living.		Year 1926	1010. 0	Nov., 1931	893. 0	11.	
Food	25	do	1026. 0	do	832. 0	18,	
Vorway: Cost of living	31	Tom 1000	234. 0	Oot 1001	105 0	-	
Food.	31	Jan., 1926	216. 0	Oct., 1931	165. 0 136. 0	29.	
Poland:	91	40	210. 0	d0	130. 0	37.	
Cost of living	Warsaw.	Feb., 1929	127.7	Nov., 1931	102.9	19.	
Food	Warsaw.	do	153. 0	do	101. 3	33.	
outh Africa:	TT CAL DOS TT .		100.0		101. 0	00.	
Cost of living	9	May, 1928	1326. 0	Oct., 1931	1219.0	8.	
Food.	9	May, 1927	1206. 0	do	1026, 0	114	
weden:		,,	1200.0		2020.0	12	
Cost of living	49	Jan., 1926	174.0	do	158.0	9.	
Food		do	163. 0	do	128, 0	21	
witzerland:	-					1	
Cost of living.	34	do	166. 0	Nov., 1931	147. 0	11.	
Food	34	do	165. 0	do	137. 0	17.	

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# **IMMIGRATION AND EMIGRATION**

# Statistics of Immigration for December and Year, 1931

By J. J. Kunna, Chief Statistician United States Bureau of Immigration

THE statistical review for December last shows that 10,728 aliens were admitted to the United States, of whom 2,642 were immigrants and 8,086 were nonimmigrants. The outward movement of aliens this month totaled 28,097, less than two-fifths (10,727) being classed as emigrants; the remaining 17,370 were nonemigrants leaving after a short stay in this country or going abroad for a temporary visit. In this month the departures exceeded the arrivals by 17,369, the largest so far for any one month.

The semiannual period ended December 31, 1931, witnessed the entry of 106,630 aliens (21,735 immigrants and 84,895 nonimmigrants) and the departure of 170,622 (58,604 emigrants and 112,018 nonemigrants), resulting in a net decrease in the alien population of 63,992. This is in contrast with net increases of 20,245 for the corresponding period of 1930, of 104,050 for 1929, of 108,767 for 1928, of 119,468 for

1927, and of 151,938 for 1926.

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Immigration to the United States during the calendar year 1931 was drastically reduced as the result of the strict enforcement of the "likely to become a public charge" provision of the immigration laws. number of immigrants dropped from 180,251 in 1930 to 43,353 in 1931, a decrease of 136,898, or 75.9 per cent. European immigration declined from 117,608 to 25,825, or 78 per cent; Canadian immigration from 41,339 to 9,462, or 77.1 per cent; Mexican immigration from 6,381 to 2,147, or 66.4 per cent; and that from other countries, 14,923 to 5,919, or 60.3 per cent. The largest number of immigrants admitted since the present quota law became effective on July 1, 1924, was during the calendar year 1926 when the influx reached 336,295. Of this number, 165,171 came from Europe, 93,468 from Canada, 61,007 from Mexico, and 16,649 from other countries. The outward movement of aliens during the calendar year 1926 was 73,179; this meant that about 25 emigrants left for permanent residence in a foreign country for every 100 immigrants or newcomers for permanent residence in the United In the calendar year just ended, 89,570 emigrants departedabout 207 leaving for every 100 immigrants admitted. This exodus in 1931 was the largest since 1922, the emigration that year exceeding 100,000.

In addition to the 89,570 emigrants leaving during 1931, which is an increase of 36,640, or 69.2 per cent, over the preceding year, there were 28,147 American citizens who left for intended future permanent residence in a foreign country. This class of departures was also larger than the year before, the increase being 9,193, or 48.5 per cent,

over the number for 1930.

Less than 8 per cent of the aliens admitted during the six months from July to December last were of the class charged to the quota under the immigration act of 1924, 7,709 being recorded as quota immigrants. The largest number came from Great Britain and Northern Ireland, 1,444 quota immigrants giving these countries as their place of birth, while 1,222 were born in Germany, 953 in Italy, and 3,450 in Poland, Irish Free State, Scandinavia, and other European countries. Quota immigrants born in Asia numbered 350; in Africa,

Australia, and other Pacific, 184; and in the quota regions of the Western Hemisphere, 106. The returning residents admitted during the same six months numbered 44,081 and visitors for business or pleasure 23,153. Other principal classes under the act of 1924 included 15,879 aliens in transit, 6,048 nonquota immigrants admitted as natives of independent countries of the Western Hemisphere, 5,264 aliens who entered as husbands, wives, or children under 21 years of age, of United States citizens, and 1,078 students. Compared with the corresponding six months of the previous year, there was a smaller number of all these classes admitted. The quota immigrants decreased 36,819; returning residents, 16,514; natives of nonquota countries, 10,631; visitors, 9,012; husbands, wives, and children, 6,049; and transits, 483.

Immigration during the six months ended December 31, 1931. compared with the corresponding period a year ago, shows a decrease from European countries of 36,084, or 74.8 per cent, the number of immigrant aliens from that source dropping from 48,269 to 12,185. Immigration from Germany declined from 8,735 to 1,625, Great Britain from 7,768 to 1,499, Italy from 8,868 to 3,344, and Irish Free State from 5,781 to 341. A little over one-half of the Europeans came The number of newcomers from Canada from these four countries. also shows a decline from 17,521 to 5,296, or 69.8 per cent, while the number from Mexico dropped from 2,267 to 1,081. A much larger decrease in immigration is revealed in comparing the influx during the last six months with that for a like period two years ago, when 78,099 immigrants came from Europe, 39,684 from Canada, and 8,589 from Mexico. This total for Europe seems small, however, when compared with the 635,140 European immigrants coming to the United States in the half year from July to December, 1913.

The number of persons debarred from entering the United States during the six months from July to December, 1931, was 3,966, of whom 2,709 were males and 1,257 females. At New York, the port of entry for 81 per cent of the aliens landing at the seaports, 71,606 aliens sought-admission in the said period; of these, 214 were debarred, or 3 per 1,000, and practically all were males. During the same six months 265 aliens were debarred at the other seaports and 3,487 at points along the international land borders. The principal cause for debarment at all ports continues to be failure to present a proper immigration visa under the immigration act of 1924. The principal races among these debarred aliens were the English (729), French

(693), Mexican (443), Scotch (388), and Irish (339).

Deportations continue to increase, 9,234 aliens having been deported from the United States during the last six months, as compared with 8,508 and 8,309, respectively, for the corresponding periods of 1930 and 1929. Over 40 per cent, or 3,792 of the 9,234 deportees for the half year ended December 31, 1931, went to Mexico, mostly Mexican departures via the southern land border; 3,256 were sent to European countries, principally Great Britain (436), Italy (416), and Germany (298); while 1,256 were sent to Canada, 424 to China, and 506 to other countries. Entering without proper visa (surreptitious entries) was by far the principal cause for deportation, 3,804 aliens having been deported for this reason; 1,528 had remained here longer than permitted; 928 were of the criminal, and 486 of the immoral classes; 687 were adults unable to read at time of entry; 576 had previously been deported or debarred; 481 were mentally or physically defective; 245 (all Chinese) had violated the Chinese exclusion act;

and the remaining 499 were contract laborers, public charges, and miscellaneous classes.

During the six months from July to December last, 1,690 indigent aliens were returned to their native land at their own request. Of this number, 645 went to Great Britain, 197 to Italy, 140 to Germany, 129 to Ireland, and 413 to Scandinavia and other Europe; 125 were returned to Mexico, and 41 to Canada, the West Indies, and other

countries.

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ly t; Under the terms of an act of Congress approved March 2, 1929, legalizing residence in the United States of aliens who entered without proper inspection prior to June 3, 1921, when the first quota law went into effect, and who had resided here continuously since such entry, 31,734 aliens were registered. The number for the fiscal year 1930 was 8,098; for 1931 it was 16,242; and for the six months from July to December last, 7,394. The examinations in cases of this kind must determine whether the following facts exist: (1) That the applicant is an alien not ineligible to citizenship; (2) that there is no record of admission for permanent residence; (3) that he entered the United States prior to June 3, 1921; (4) that he has resided in the United States continuously since such entry; (5) that he is a person of good moral character; and (6) that he is not subject to deportation.

Of the 31,734 aliens registered during the said two and one-half years, 1,785 were born in Germany, 1,726 in Great Britain, 1,423 in Greece, 896 in Ireland, 2,296 in Italy, 3,825 in Poland, 1,812 in Scandinavia, and 7,836 in other European countries. Natives of Canada numbered 5,130; of Mexico, 3,567; and of other countries, 1,438.

The vast majority of these were seamen at time of entry.

The statistics also show that in 4,966 cases registration was denied. The denials were unfavorable to 1,813 aliens, including 1,208 who failed to establish continuous residence, 552 were not of good moral character, 40 were subject to deportation, and 13 were ineligible to citizenship. In the cases of 2,482 applicants for registration, record of permanent admission was found, 519 failed to appear for examination, 49 were found to be American citizens, 45 had left the country without awaiting final action, and 58 had died before final action was taken.

INWARD AND OUTWARD PASSENGER MOVEMENT, JULY TO DECEMBER, 1931

Period			Inward	1								
	Aliens admitted			United		Aliens de- barred from	Alier	ns depa	rted	United States		Aliens de- ported after
	Immi- grant	Non- immi- grant	Total	States citizens arrived	Total	enter- ing 1	Emi- grant	Non- emi- grant	Total	citi- zens de- parted	Total	enter- ing <sup>2</sup>
July	3, 174 4, 090 5, 017 3, 913 2, 899 2, 642	16, 580 20, 940 17, 096 9, 832	20, 670 25, 957 21, 009 12, 731	30, 944 59, 372 62, 581 32, 427 16, 823 16, 932	80, 042 88, 538 53, 436 29, 554	657 684 806 573	11,318	23, 009 20, 393 16, 525 14, 271	32, 550 29, 126 27, 382 25, 589	42, 247 35, 016 23, 224	98, 445 71, 373 62, 398 48, 813	
Total	21, 735	84, 895	106, 630	219, 079	325, 709	3, 966	58, 604	112,018	170, 622	237, 694	408, 316	9, 23

<sup>&</sup>lt;sup>1</sup> These aliens are not included among arrivals, as they were not permitted to enter the United States.

<sup>2</sup> These aliens are included among aliens departed, they having entered the United States, legally or illegally, and later being deported.

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LAMPERT, FLORIAN.

Old-age pensions.

Congressional Record, July 3, 1930, v. 72, pp. 12634-12635.

McKeown, Tom D.

[Speech advocating Government aid to old-age pensions.] Congressional Record, January 8, 1930, v. 72, pp. 1266-1268.

SELVIG, CONRAD G. Old-age pensions.

Congressional Record, July 1, 1930, v. 72, p. 12215. Partly reprinted in the United States Daily, August 21, 1930.

ZIHLMAN, FREDERICK N.

Old-age pensions.

Congressional Record, July 3, 1930, v. 72, pp. 12683-12686.

Includes his bill, H. R. 13016, to encourage and assist the States in providing old-age pensions.

United States. Congress. House. Committee on Labor.

Old-age pensions. Hearings . . . February 20, 21 and 28, 1930. Washington, 1930. 343 pp.

William F. Kopp, chairman.

H. R. 1199, H. R. 6875, and H. R. 8814 were before the committee, but the hearings covered the subject generally, with testimony presented for and against old-age pension legislation.

Constitutionality of Federal old-age assistance legislation, by J. P. Chamberlain, pp. 76-78; Statistical data regarding old-age dependency, care of aged, etc., furnished by the United States Bureau of Labor Statistics, pp. 248-280; State old-age pension laws, pp. 30-40, 291-314, 339-343; Comparative analysis of State laws, pp. 317-323.

Summary in Monthly Labor Review, April, 1930, v. 30, pp. 731-734.

UNITED STATES. Congress. Senate. Committee on Pensions.
Old-age pensions. Hearing before a subcommittee . . . on S. 3257, a bill to encourage and assist the States in providing pensions to the aged, February 24, 1931. Washington, 1931. 175 pp.

Thomas D. Schall, chairman.

Testimony in favor by Senator Dill, Harry Riseman, Abraham Epstein, J. M. Morin and others; opposed by J. C. Gall, W. E. Odom, and Noel Sargent.

### State Legislation and Discussion, 1929 to 1931

The following States (and Alaska) have adopted old-age pension laws (as of December, 1931):

Alaska, California, Colorado, Delaware, Idaho, Kentucky, Maryland, Massachusetts, Minnesota, Montana, Nevada, New Hampshire. New Jersey, New York, Utah, West Virginia, Wisconsin, Wyoming.<sup>2</sup>

#### California

[Law passed in 1929 (ch. 530), amended 1931 (ch. 608). Provides for State supervision of city and county aid to the aged. Printed in Monthly Labor Review, July, 1929, v. 29, pp. 24–28.]

California Triumphant! A mandatory old-age pension law will become effective in the Golden State on January 1, 1930.

Eagle Magazine, July, 1929, v. 17, No. 7, pp. 5-7, 39, 40.

DE TURBEVILLE, ESTHER.

Bibliography, pp. 171-180.

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California adopts old-age pensions.

American Labor Legislation Review, September, 1929, v. 19, pp. 291–293.

— Since California began to pension its aged. (In National Conference on Old Age Security, 3d, New York, 1930, Report of proceedings, pp. 45-51.)

#### Colorado

[Law of 1927 (ch. 143) amended in 1931 (ch. 131) to adopt compulsory features.]

#### Connecticut

Manufacturers Association of Connecticut (Inc.).
Old-age dependency in Connecticut. Hartford, Conn. [1931.] 180 pp.
Submitted to the General Assembly, 1931. Includes description of pension systems in foreign countries and the United States.

#### Delaware

[Law passed in January, 1931 (ch. 85). All the cost of pensions to be borne by the State. Analyzed in Monthly Labor Review, April, 1931, v. 32, pp. 86, 87.]

Delaware Pension Law Great Du Pont victory. Alfred I. duPont aids aged while sponsoring legislation.
Old Age Security Herald, March, 1931, v. 5, No. 3, p. 3.

#### Idaho

[Act passed February, 1931 (ch. 16) establishes an old-age pension commission in counties. Analyzed in Monthly Labor Review, June, 1931, v. 32, pp. 82, 83.]

Idaho Old-Age Pension Law. Idaho State Federation of Labor, Year book, v. 2, 1931, pp. 20-22, 24, 26.

#### Illinois

KAILIN, HARVEY.

The old-age security movement in Illinois.

Weekly News Letter (Illinois State Federation of Labor), February 7, 1931, v. 16, No. 45, p. 1.

<sup>&</sup>lt;sup>2</sup> For table showing the "Chief features of the old age pension bills in the 1931 legislatures," see Old Age Security Herald, March, 1931, pp. 6-7; see also "Fourteen governors demand old-age pensions" in same lournal, February, 1931, p. 1.

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#### MONTHLY LABOR REVIEW

SODERSTROM, R. G.

Renew battle for old-age pension bill.

Weekly News Letter (Illinois State Federation of Labor), December 27, 1930, v. 16, No. 39, p. 1.

#### Kentucky

Kentucky. Bureau of Agriculture, Labor and Statistics.

The elder worker: Restricted employment, annuities, relief, by John Walker Rogers. [Frankfort, Ky., 1929.] 45 pp. (Bul. No. 35.)

> "The Kentucky old-age pension law," pp. 29-31. Bibliography, pp. 40-45.

#### Maryland

SATURDAY NIGHT CLUB, Baltimore.

A study of old-age dependency in the city of Baltimore, 1930. [Baltimore, 1930.] 16 pp.

#### Massachusetts

[Act of 1930 (ch. 402) provides for relief to the aged. Analyzed in Monthly Labor Review, August, 1930, v. 31, pp. 52, 53, and in American Labor Legislation Review, September, 1930, v. 20, pp. 328, 329.]

CONANT, RICHARD K.

Old age assistance: the Massachusetts plan.

(In National Conference of Social Work, Proceedings, 1930, pp. 301-

MASSACHUSETTS DEMANDS PENSIONS.

Old Age Security Herald, March, 1930, v. 4, No. 3, p. 2.

Hearings on the bill before the State legislature.

#### Michigan

MICHIGAN. Old Age Pension Commission.

[Report to Legislature, February 11, 1931.]

The bill proposed by the Commission (House bill No. 197) passed the House of Representatives but failed in Senate.

MICHIGAN OLD AGE PENSION LEAGUE.

Old-age pension bill. [Lansing? Michigan Federation of Labor, 1930.] 8 pp.

#### Minnesota

[A law establishing a county-State pension system passed in March, 1929 (ch. 47).]

GOOD ARGUMENTS BUT BAD PLAN.

American Labor Legislation Review, June, 1929, v. 19, p. 154.

Comment on the report of a committee of the State Senate recommending an old-age pension system, and on the law passed later.

OLD-AGE PENSION MOVEMENT IN MINNESOTA.

Monthly Labor Review, January, 1931, v. 32, p. 93.

Results of elections in which counties voted on the system.

#### Montana

MARTIN, G. I.

Operation of the Montana old-age pension law [of 1923]. Monitor, April, 1930, v. 16, pp. 219, 220.

#### New Hampshire

[Law providing for relief to the aged enacted May, 1931 (ch. 165). Analyzed in Monthly Labor Review, September, 1931, v. 33, pp. 59, 60.]

NEW HAMPSHIRE. Supreme Court.

Proposed olu-age pension law of New Hampshire held to violate the principle of separation of powers.

Law and Labor, April, 1931, v. 13, pp. 87-89.

Opinion on Senate bill No. 3, 1931. The bill was changed to meet objections of the court and passed.

New Jersey

[Act of April, 1931 (ch. 219) provides for a county-State system of old-age pensions. Analyzed in Monthly Labor Review, June, 1931, v. 32, pp. 85, 86.]

JERSEY. Commission on Old Age Insurance and Pensions. Report, January, 1929. 8 pp. NEW JERSEY.

Theodore L. Bierck, chairman.

Pension Survey Commission.

Report, No. 1-2. Trenton, 1931.

Roy T. Yates, chairman.

No. 1 (February, 1931) contains recommendations on establishment of county welfare boards and on State aid for relief of old age. No. 2 (October, 1931): State, county and municipal expenditures for dependency relief, 1929-1931.

WINSLOW, EMMA A.

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State care of poor in New Jersey. Old-age pension law recently enacted is an addition to already comprehensive system existing. Manufacturers' Association Bulletin, July, 1931, v. 18, No. 9, pp. 9, 10.

#### New York

[Law passed April, 1930 (ch. 387). A State-county system of relief provided. Analyzed in Monthly Labor Review, June, 1930, v. 30, pp. 82, 83.]

New York (State). Commission on Old Age Security.
Old-age security. Report, February 17, 1930. Albany, 1930. 692 pp.
(Legislative document (1930) No. 67.)

Seabury C. Mastick, chairman.

Partial contents: Pt. I. Economic and administrative problems. 1. The aged in the State of New York. 2. The extent of old-age need. 3. Human depreciation. 4. Income and employment. 5. Public and private pension systems. 6. Savings and insurance. 7. Old-age assistance legislation in other States. 8. Experience under American legislation. 9. Foreign laws and experience. 10. Reports of commissions in other States. Pt. II. Relief and the aged.

Conclusions and recommendations of the commission reprinted in U. S. Congress, House, Committee on Labor, Hearings, 1930, p. 281-289, and in American Labor Legislation Review,

March, 1930, v. 20, pp. 73-82.

Brief excerpts from testimony before the commission, in Old Age Security Herald, October, 1929, January, 1930.

BARKIN, SOLOMON.

Some disclosures of the report of New York State Commission on Old Age Security. Old Age Security Herald, November, 1930, v. 4, No. 11, pp. 3, 4.

FISHER, GLADYS.

Three score and ten in 1931.

Survey, August 15, 1931, v. 66, pp. 463, 464.

Problems met in administering the old-age relief act of New York.

Mastick, Seabury C.

The old-age security act of the State of New York.

(In Deutsch Foundation Conference, Chicago University, 1930: The care of the aged; Proceedings, pp. 83-94.)

Also in Social Service Review, June, 1930, v. 4, p. 210-221.

NEW YORK COUNTIES PROTEST BURDEN OF OLD-AGE LAW. Eastern Underwriter, December 12, 1930, v. 31, No. 53, p. 4. Reprinted from New York Herald-Tribune.

OPERATION OF OLD-AGE PENSIONS IN NEW YORK STATE. Monthly Labor Review, November, 1931, v. 33, p. 79.

Data supplied by the New York State Department of Social Welfare.

ROOSEVELT, FRANKLIN D.

Unemployment and old-age pensions.

(In Governors' Conference, Proceedings, 1930, pp. 18-24.)

Excerpts in Old Age Security Herald, August, 1930, p. 1.

SCHNEIDER, DAVID M.

Extending relief for old age in New York State.

United States Daily, January 13, 1932, p. 2568, cols. 5, 6.

Review of operation of the law for the first 11 months of 1931.

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SEAGER, HENRY R.

Need of provision for the aged in New York. American Labor Legislation Review, March, 1930, v. 20, pp. 68-72.

SHERMAN, PHILEMON T.

Old-age security; public assistance for dependent aged. Statements before Criticisms of the New York State Commission, December 4, 1929. pension plan and alternative recommendations. New York City [1929] 19 pp.

Ohio

ODOM, WILLIAM E.

A survey of poor relief systems and care provided for aged dependents in the State of Ohio. [2d ed.] Cincinnati, Industrial Association, 1930.

OHIO STATE FEDERATION OF LABOR.

Report of the legislative agent, Thos. J. Donnelly, 89th session, 1931. [Columbus, 1931.] 52 pp. Old-age pension bills in the legislature, pp. 34-36.

Russell, Meigs B.
How the Ohio bill died.

Old Age Security Herald, May, 1931, v. 5, No. 5, p. 6.

#### Utah

[Law establishing a county system passed in March, 1929 (ch. 76).]

PAUL, J. H.

How Utah pensions its aged.

(In National Conference on Old Age Security, 3d, New York, 1930, Report of proceedings, pp. 51-57.)

#### West Virginia

[Act passed March, 1931 (ch. 32) establishes a county system. Analyzed in Monthly Labor Review, June, 1931, v. 32, p. 84.]

#### Wisconsin

[The old-age pension law of 1925 (ch. 121) was amended in 1929 (ch. 181) and in 1931 (ch. 109).]

Wisconsin. State Board of Control.

Old-age pensions in Wisconsin, 1928. [Madison, 1929.] 14 pp.

Report of operation of the law of 1925. The tables, with later data, were reprinted in Monthly Labor Review, April, 1930, v. 30, pp. 734-736.

GLASSBERG, BENJAMIN.

The Wisconsin law.

(In National Conference on Old Age Security, 3d, New York, 1930, Report of proceedings, 1930, pp. 61-67.)

Wisconsin's experience with the old-age pension law. (In Deutsch Foundation Conference, Chicago University, 1930: The care of the aged; Proceedings, pp. 95-102.)

HEINEMANN, FRED V.

Statement [on administration of the Wisconsin law].

(In Old-age pensions. Hearings before the Committee on Labor,
[U. S.] House of Representatives, February, 1930, pp. 53-66.)

WISCONSIN MAKES PENSIONS MANDATORY. Abandons optional system to spread benefits of pensions throughout 71 counties. Old Age Security Herald, July-August, 1931, v. 5, No. 7-8, p. 1.

#### Wyoming

[A State-county system was established by act of 1929 (ch. 87.).]

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### Official-United States

ALASKA.—Governor. Annual report to the Secretary of the Interior, for fiscal year ended June 30, 1931. Washington, Department of the Interior, 1931. 162 pp., maps, charts, illus.

Data on wages and labor conditions, taken from this report, are given in this issue of the Labor Review.

Kentucky.—Department of Agriculture, Labor, and Statistics. Biennial report, July 1, 1929, to June 30, 1931. Frankfort, 1931. 201 pp.

NEW JERSEY.—Board of Trustees, State Employees' Retirement System. Ninth annual report, June 30, 1931. Trenton, [1931?]. 32 pp.

NEW YORK.—Department of Labor. Division of Industrial Hygiene. Chrome poisoning, its cause and prevention. Albany, 1931. 22 pp., illus.

A list of the industries in which chrome poisoning is a hazard is included in the report, and a summary is given of recent studies of the extent of the hazard in chromium-plating plants and lithographing plants in New York.

Wisconsin.—Industrial Commission. Bureau of Unemployment Research Series, No. 2: Administration of public and private relief in times of unemployment. A statement of desirable methods of administration, public and private agency responsibility, and working relations between public and private agencies. Madison, 1931. 20 pp.

--- Legislative Interim Committee on Unemployment. Report. Madison, Industrial Commission, [1931?]. 114 pp., charts.

This report contains statements as to the extent of unemployment in Wisconsin, the methods being used by the State and private agencies to alleviate conditions, and recommendations for further action. Recommendations are summarized in a majority and a minority report and suggested bills are given in full.

UNITED STATES.—Congress. Senate. Committee on Manufactures. Establishment of national economic council. Hearings (72d Cong., 1st sess.) on S. 6215 (71st Cong.), a bill to establish a national economic council, October 22 to December 19, 1931. Washington, 1932. 777 pp., charts.

Unemployment relief. Hearings (72d Cong., 1st sess.) on S. 174 and S. 262, December, 1931, and January, 1932. Washington, 1932. 380 pp.

Department of Commerce. Bureau of Foreign and Domestic Commerce. Trade Information Bulletin No. 785: Porto Rico—what it produces and what it buys. Washington, 1932. 61 pp.

Contains some information on labor supply and demand and average daily earnings.

Bureau of Mines. Bulletin 341: Coal-mine fatalities in the United States, 1929, by William W. Adams. Washington, 1931. 120 pp.

Reviewed in this issue.

——— Monograph 4: Warning agents for fuel gases. Washington, 1931.

177 pp., diagrams, illus.

This study was undertaken to determine the most suitable substances for addition to fuel gases in order to give warning of their presence to consumers and employees.

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- UNITED STATES.—Department of Commerce. Bureau of Mines. Technical Paper 503: Accidents at metallurgical works in the United States during the calendar year 1929, by William W. Adams. Washington, 1931. 32 pp. Reviewed in this issue.

Data on wages of seamen on American and foreign vessels, taken from this report, are given in this issue of the Labor Review.

- —— Bureau of Standards. Building and Housing No. 14: Recommended minimum requirements for fire resistance in buildings (report of the Department of Commerce Building Code Committee). Washington, 1931. 58 pp.

The results of the unemployment census were first published in a series of separate bulletins for the individual States, each entitled "Unemployment Bulletin—Unemployment Returns by Classes," with an additional bulletin summarizing the information for the United States as a whole and entitled "United States Summary—Unemployment Returns by Classes." The present volume assembles under one cover all of these separate bulletins.

- —— Department of Labor. Bureau of Labor Statistics. Bulletin No. 548: Decisions of courts and opinions affecting labor, 1929-1930. Washington, 1931. 521 pp.

An advance summary of the data obtained in this survey was published in the Labor Review for March, 1931 (pp. 162-168).

- Employees' Compensation Commission. Fifteenth annual report, July 1, 1930, to June 30, 1931. Washington, 1931. 129 pp.

  Reviewed in this issue.
- Federal Farm Board. Division of Cooperative Marketing. Beginnings of cooperative tobacco marketing. Washington, 1931. 18 pp. (Mimeographed.)
- Federal Trade Commission. Annual report for the fiscal year ended June 30, 1931. Washington, 1931. 241 pp.
- —— Resale price maintenance. Part I.—General economic and legal aspects.

  Washington, 1929. 141 pp. (Published as H. Doc. No. 546, 70th Cong., 2d sess.)

# Official-Foreign Countries

- Canada.—Bureau of Statistics. Canada, 1932: The official handbook of present conditions and recent progress. Ottawa, 1932. 192 pp., maps, charts, illus.
- GREAT BRITAIN.—Board of Trade. Final report on the third census of production of the United Kingdom (1924): The chemical and allied trades; the leather, rubber, and canvas goods trades; the paper, printing, and allied trades; and miscellaneous trades. London, 1931. xv, 468 pp.
- —— Department of Overseas Trade. Economic conditions in Palestine, July, 1931. Report by K. W. Stead. London, 1931. 48 pp.

  A review of a section of this report is given in this issue.

GREAT BRITAIN.—Government Actuary's Department. National health insurance: Report by the Government actuary on third valuation of the assets and liabilities of approved societies. London, 1931. 97 pp. (Cmd. 3978.)

While the position revealed by this third valuation is complex, "its predominant feature is the magnitude of the aggregate surplus and the substantial additional benefits inuring to a large proportion of the insured population." Much of this surplus has been carried forward, thus strengthening the position of the societies concerned. There are, however, two disquieting factors—the increase in the sickness rate, with the consequent increased claims for benefit, and the falling off of contributions owing to the widespread unemployment. As to the first, the author of the report dismisses the theory that the increased sickness is a natural result of the changed economic conditions brought about by unemployment, saying that the difference is too great to be explained on this ground. The suggestion is made that the conditions for granting benefit, especially in the case of women, should be more rigidly administered. As to the second difficulty, it is suggested that if the present degree of unemployment continues, it may become necessary to reconsider the concession made to those who have fallen into arrears as a result of proved unemployment.

— Ministry of Labor. Advisory Committee on Draft Regulations. Unemployment insurance (No. 3) act, 1931. Report. London, 1931. 12 pp.

Under the so-called "anomalies act," passed in August, 1931, the Minister of Labor was given power, after consultation with an advisory committee, to issue regulations affecting the insurance rights of seasonal workers, part-time workers, and married women. This report contains the findings of the advisory committee on the draft of the proposed regulations which was laid before them. The regulations finally put into force are summarized in the Labor Review, December, 1931, p. 74.

— Registry of Friendly Societies. Report for the year 1930. Part 2: Friendly societies. London, 1931. 29 pp.

International Labor Office.—Abolition of fee-charging employment agencies. (First item on agenda of International Labor Conference, 16th session, 1932, 1st discussion.) Geneva, 1932. 139 pp.

Includes a general survey of the subject under discussion, a résumé of law and practice on fee-charging employment agencies in different countries, and suggestions for a solution of the problems involved in such agencies.

—— Invalidity, old-age, and widows' and orphans' insurance. (Second item on agenda of International Labor Conference, 16th session, 1932, 1st discussion.) Geneva, 1932. 312 pp.

An analysis of invalidity, old-age, and widows' and orphans' insurance, under the following topics: Scope, risks covered and benefits, financial resources, financial organization, administrative organization, settlement of disputes, position of foreigners, and maintenance of migrants' pension rights.

— Studies and Reports, Series B, No. 18: The social aspects of rationalization. Geneva, 1931. 381 pp.

#### Unofficial

AMERICAN ASSOCIATION OF PERSONAL FINANCE COMPANIES. Seventeenth annual convention, Washington, D. C., October 21–23, 1931. General subject: Consumer credit and personal finance. [Washington, D. C.?], 1931. 328 pp.

AMERICAN STANDARDS ASSOCIATION. Safety code for elevators, dumbwaiters, and escalators. New York, 29 West 39th Street, 1931. 173 pp.

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AMERICAN WOMAN'S ASSOCIATION. The trained woman and the economic crisis:

Employment and unemployment among a selected group of business and professional women in New York City. New York, 353 West 57th Street, 1931.

102 pp.

A study made by the American Woman's Association, an organization of business and professional women, covering 1,937 of its own membership. The report deals with the situation as it was in February, 1931.

Buechner, F. Robert. Municipal self-insurance of workmen's compensation. Chicago, University of Chicago Press, 1931. 72 pp.

Conclusions and recommendations, based on a study of methods of handling compensation insurance in eight small or medium-sized cities in Michigan and Virginia, in answer to the question, Can a municipality afford to carry its own compensation insurance where elective?

Committee on Labor Injunctions. Labor injunctions. New York, 100 Fifth Avenue, 1931. 8 pp.

The Federal anti-injunction bill. New York, 100 Fifth Avenue, 1931. 8 pp.

Family Welfare Association of America. Community planning for homeless men and boys—the experience of 16 cities in the winter of 1930-31, by Robert S. Wilson. New York, 130 East 22d Street, 1931. xiv, 144 pp.

This volume is divided into three parts covering in turn the experience of 16 cities in dealing with men and boys, the essentials for a community program, and the homeless man as an individual.

FILENE, EDWARD A. Successful living in this machine age. New York, Simon & Schuster, 1931. 274 pp.

The author claims that poverty and unemployment are no longer necessary and that there is no need for us even to learn another industrial technique. However, he holds that it is essential to apply the technique which we have already learned, namely, mass-production technique, to this age in which individual prosperity is so deeply dependent upon the prosperity of all the people.

Halbert, Blanche, Editor. The better homes manual. Chicago, University of Chicago Press, 1931. 781 pp., diagrams, illus.

Horovitz, Samuel B. Practice and procedure under the Massachusetts workmen's compensation law, with forms. Boston, Eugene W. Hildreth, 1930. 176 pp. A reference book, describing the various steps in compensation practice and

procedure under the Massachusetts act. It contains quotations of the pertinent statutes, explanations of the actual practice now in effect, and citations of authoritative decisions of the superior and supreme judicial courts of the State.

Hulvey, Charles Newton, and Wandel, William Hamlin. Workmen's compensation and automobile liability insurance in Virginia. New York, Century Co., 1931. 203 pp. (Publication of Institute for Research in the Social Sciences, University of Virginia.)

A study of the social effects of casualty insurance and the relationship of the State to insurance administration. The technique of rate-making and the policy of the State in regulation of rates are described in detail for workmen's compensation insurance in the first part, and for automobile liability insurance in the second part, which also reviews the trend toward compulsory automobile insurance.

KEYNES, JOHN MAYNARD, and others. Unemployment as a world problem. Chicago, University of Chicago Press, 1931. 261 pp. (Lectures on the Harris Foundation, 1931.)

Lescohier, Don D. Our unemployment problem. Madison, Industrial Commission of Wisconsin, 1931. 20 pp.

An address to the Wisconsin Master Builders' Association on February 12, 1931.

Lewis, Edward E. The mobility of the Negro: A study in the American labor supply. New York, Columbia University Press, 1931. 144 pp., maps.

A study of Negro migration during the period 1919 to 1924, made under the auspices of the Social Science Research Council and the Columbia University Council for Research in the Social Sciences.

McCord, Carey P., M. D., and Allen, Floyd P., M. D. Industrial hygiene for engineers and managers. New York, Harper & Bros., 1931. 336 pp., illus. This volume brings together the material presented to students in the engineering courses of the University of Cincinnati during the past 10 years. It is designed more for the engineer or manager in industry who should be conversant with the requirements of good industrial hygiene than for the engineer who is a qualified industrial hygienist. It deals with emergency aid for the industrially injured, occupational diseases, accident prevention, industrial fatigue, compensation for industrial accidents and diseases, and various special services, such as dental departments and physical examinations and other measures for the safety and health of the workers.

MINNESOTA, UNIVERSITY OF. Bureau for Research in Government. Publication No. 9: The administration of workmen's compensation in Minnesota, by Lloyd A. Wilford. Minneapolis, University of Minnesota Press, 1930. 35 pp.

A condensed revision of the original study, describing the development of workmen's compensation legislation in Minnesota, the substantive provisions of the legislation, the functions and work of the administrative officers, and the present procedure in claim settlements.

NATIONAL SAFETY COUNCIL. 1931 transactions of the National Safety Council: twentieth annual safety congress, Chicago, October 12 to 16, 1931. Chicago, 20 North Wacker Drive, 1932. 3 vols.

The proceedings of the individual sections have been published in separate pamphlets.

NATIONAL URBAN LEAGUE. Department of Industrial Relations. Unemployment status of Negroes: A compilation of facts and figures respecting unemployment among Negroes in 106 cities. New York, 1133 Broadway, 1931. 56 pp.

Neifeld, M. R. Credit unions in the United States. (Reprinted from Journal of Business of the University of Chicago, Vol. IV, No. 4, October, 1931, pp. 320-345.)

The writer, who is the statistician of the Beneficial Management Corporation, New York City (an organization which acts as manager of certain personal finance or small-loan companies), examines the credit-union movement from the point of view of economy of operations, field of membership, development of thrift, etc.

Princeton University. Department of Economics and Social Institutions. Industrial Relations Section. Selected bibliography: Unemployment prevention, compensation, and relief—company, trade-union, and public programs. Princeton, January 28, 1932. 4 pp. (2d supplement to bibliography prepared September, 1931.)

Russell Sage Foundation. Library. Bulletin No. 110: Labor and industry a selected bibliography. New York, 130 East 22d Street, December, 1931. 4 pp.

UNGER, EDNA W., AND BURR, EMILY T. Minimum mental age levels of accomplishment: A study of employed girls of low-grade intelligence. Albany, University of the State of New York, 1931. 107 pp., charts.

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WALTERS, J. E. Applied personnel administration. New York, John Wiley &

Sons (Inc.), 1931. 338 pp., diagrams.

Prepared as a textbook for college students and as a general reference work for practical use in the solving of problems of personnel administration. According to the preface, the book does not purport to be a critical analysis of personnel administration, but is an attempt "to portray the personnel procedures which have been found helpful in decreasing and preventing human problems and in increasing human efficiency, happiness, and development in industry and business."

Welfare Council of New York City. Research Bureau. Study 5: The care of the chronic sick in private homes for the aged in and near New York

City, by Mary C. Jarrett. New York, 1931. 67 pp.

Report based on a census, taken in the spring of 1928, of 20,754 persons being cared for by the medical and social agencies of New York City and on a detailed survey made during the same period of facilities for the care of the chronic sick. especially in the homes for the aged. The latter were studied with a view to adequacy of care and treatment, facilities for care, etc.

WHITE, L. W., AND SHANAHAN, E. W. The industrial revolution and the economic world of to-day: A study of industrial changes and their effects in Great Britain and of contemporary economic structure. London and New York, Longmans, Green & Co., 1932. 378 pp.

WOOD, EDITH ELMER: Recent trends in American housing. New York, Mac-

millan Co., 1931. 317 pp., illus.

Includes chapters on war housing, the housing shortage, rent restriction, tax exemption, tenement house and housing codes, growth of zoning, city and regional planning, the land question, satellite garden cities, and cooperative housing.